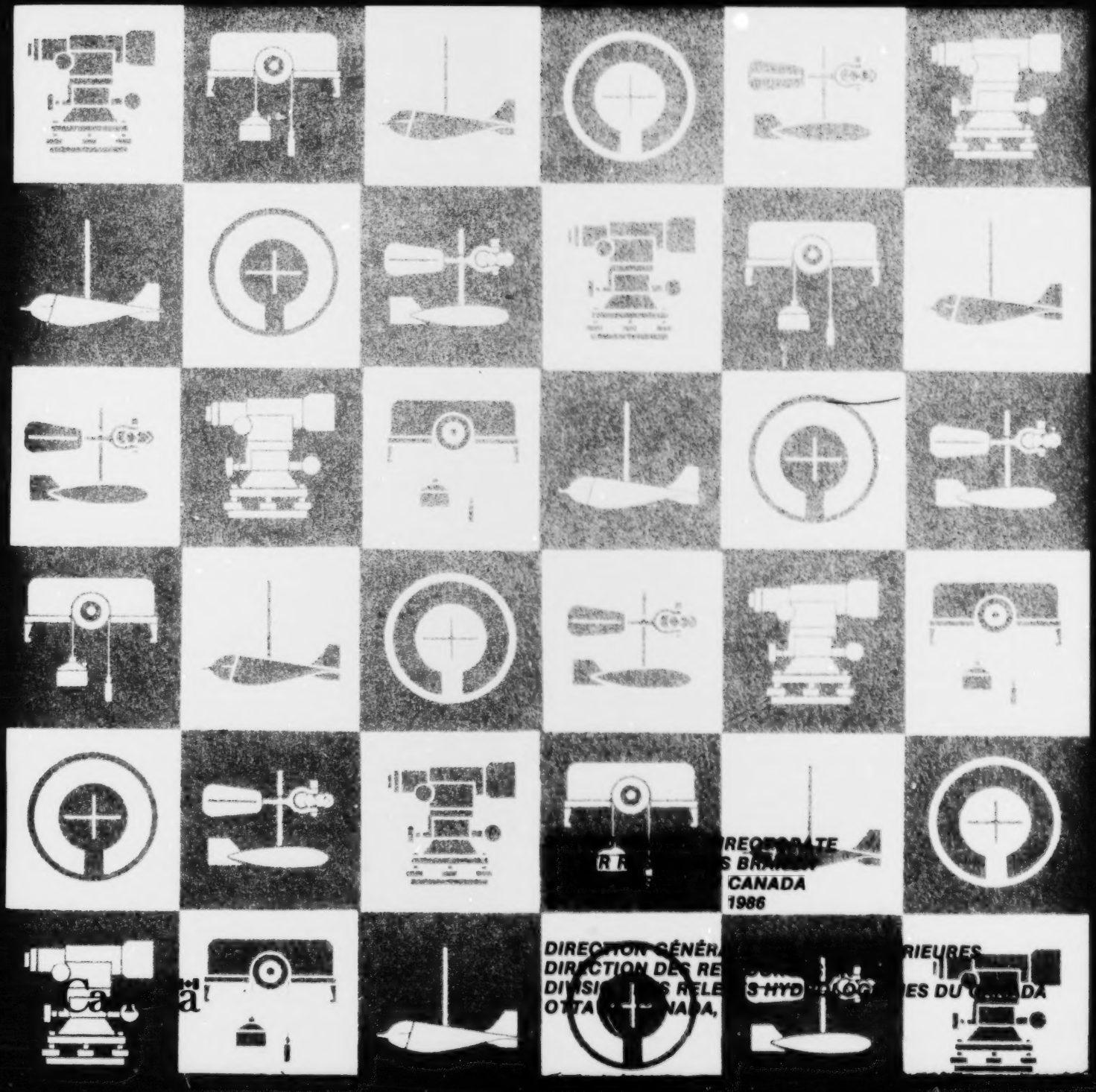
Sediment Data

Ontario

Données sur les sédiments

1984



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Environment Canada Environnement Canada

Sediment Data

Ontario

Données sur les sédiments

1984

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1986

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
OTTAWA, CANADA, 1986

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PREFACE

This publication was prepared by personnel of the Sediment Survey Section, Water Survey of Canada Division, under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Guelph, Ontario.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

Le groupe d'étude des sédiments de la Division des relevés hydrologiques du Canada, sous l'autorité du directeur des Ressources en eau du ministère de l'Environnement, à Ottawa, a préparé la présente publication.

Le chef régional de la Direction des ressources en eau, à Guelph (Ontario), a supervisé la collecte et la compilation des données de base.

Nous remercions vivement les organismes provinciaux, ou autres, pour leur collaboration.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1984 calendar year, the results of the sediment survey investigations conducted in Ontario by the Water Survey of Canada.

Data on the character and quantity of fluvial sediments provided by sediment survey investigations are intended for use in studies of water quality, environmental impacts, river processes and behaviour, and engineering design.

General introductory information on the sediment survey is included in this publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

Details on individual stations and related records, as well as recent data that have not yet been published, may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
Federal Building,
75 Farquhar Street,
Guelph, Ontario.
N1H 3N4

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7.

INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les résultats des études des sédiments effectuées dans les cours d'eau de l'Ontario par la Division des relevés hydrologiques du Canada au cours de l'année civile 1984.

Les données recueillies sur la nature et l'importance de la charge solide dans les cours d'eau doivent servir aux études portant sur la qualité des eaux, les incidences environnementales, les processus fluviaux, le comportement des cours d'eau et la conception de projets.

La presente publication contient des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications régulières présentant des données sur les eaux de surface.

On peut obtenir des renseignements supplémentaires sur les stations et les relevés, ainsi que des données récentes non encore publiées, en s'adressant au:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice fédéral
75, rue Farquhar
Guelph (Ontario)
N1H 3N4

ou au directeur des Ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0E7.

SCOPE OF PUBLICATION

Descriptive information about sediment stations is given. This refers to the Location, Latitude and Longitude, Drainage Area and whether the flow is Natural Flow or Regulated Flow (the year that regulation began is given, if known), Type of Gauge and the Total Suspended Sediment Load in Tonnes for the Period of Record is also included. International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions at the sediment station that could effect the data results are explained under "Remarks".

This publication contains data on streamflow, instantaneous suspended sediment concentration; daily mean suspended sediment concentration; daily suspended sediment loads; dissolved solids concentration; load summary; particle-size distribution of suspended sediment in percent sand, silt and clay; bed load and bed material; water temperature when samples were collected; type of sampler and the single sampling vertical location.

A historical sediment data summary includes such information as Sampled Concentration Maximum and Minimum; Suspended Sediment Load Maximum Daily and the Total for Period. The Period of Record and the Type of Operation for each year of data are also given. A Summary for the Months of record gives the Period of Record Mean, the Mean for Period of Record and the Standard Error of Mean as a percent.

ORGANIZATION AND HISTORY OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the needs of federal and provincial agencies for assessment of particular projects. Although the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

(1) Collection and provision of data related to sediment transport in Canadian rivers for applications in water resource engineering, water quality and environmental studies.

(2) Provision of information and advice related to sediment transport.

(3) Assessment, improvement and standardization of equipment and techniques used in Canada's sediment survey program.

PORTÉE DE LA PUBLICATION

Des données descriptives sont présentées sur les stations d'étude des sédiments. Elles concernent leur emplacement, leurs latitude et longitude, leur bassin versant, la nature de débit (naturel ou régularisé, avec indication, le cas échéant, de l'année où la régularisation a commencé, si elle est connue), le type d'instrument de mesure employé et le débit total des sédiments en suspension (en tonnes) pour la période de relevé. Les stations internationales de jaugeage sont indiquées, ainsi que le nom des organismes qui fournissent les données. Des explications concernant des conditions exceptionnelles qui ont pu influer sur les résultats sont présentées dans la partie «Remarques».

Cette publication renferme des données sur le débit des cours d'eau, les concentrations instantanées de sédiments en suspension, les concentrations journalières moyennes de sédiments en suspension, les débits journaliers de sédiments en suspension, les concentrations de matières dissoutes, les débits solides totaux (résumés), la granulométrie des sédiments en suspension exprimée en pourcentage de sable, de limon et d'argile, le charriage et les matériaux du lit, la température de l'eau au moment de l'échantillonnage, le type d'échantillonneur employé et l'emplacement des verticales de prélèvement d'échantillons uniques.

Un résumé des données historiques sur les sédiments est inclus. On y trouve divers renseignements comme les concentrations maximale et minimale mesurées, le débit journalier maximal des sédiments en suspension et le total pour la période. La période de relevé et le type d'exploitation des stations sont indiqués pour chaque année. Dans un résumé pour les mois de relevé, on donne la moyenne pour chaque période et pour l'ensemble des périodes de relevé ainsi que l'erreur-type de la moyenne, en pourcentage.

ORGANISATION ET HISTORIQUE DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts de ces études sont de:

(1) réunir et produire des données sur les transports solides dans les cours d'eau canadiens, données dont on peut avoir besoin pour des études concernant l'environnement, la qualité des eaux et la conception de projets portant sur les ressources en eau.

(2) produire des informations concernant les transports solides.

(3) évaluer, améliorer et uniformiser le matériel et les techniques employés dans le programme d'étude des sédiments au Canada.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Sediment data have been published in a variety of formats since the beginning of the Sediment Survey Program.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* are presented and published in a new format wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis le début du programme d'étude des sédiments, la présentation des données a varié.

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*; elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments - rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

En 1984, la présentation des données a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain cross sections are located at traffic bridges, while others are equipped with cableways, or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.

(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.

(c) Depth-integrating suspended sediment samplers, USD-49, and USD-74, used on a reel suspension for medium and large streams whose depths are less than five metres.

(d) Point-integrating suspended sediment samplers, USP-61, USP-61-A1, USP-63, and USP-72, used for point-integrating sampling, or depth-integrating sampling if the depth is over five metres, or in a cross section with a very high velocity.

(e) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(f) Bed material sampler, USBM-54, used on large or deep streams or on those streams with hard-packed streambeds.

(g) Bed material sampler USBMH-60, used on some large or deep streams or on those streams with soft-packed streambeds.

(h) Bed material sampler USBMH-53 used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment load measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment load by the

COLLECTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines sections sont situées sous un pont, d'autres sont accessibles par téléphérique, ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) L'échantillonneur intégrateur selon la profondeur, type simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;

(b) L'échantillonneur intégrateur selon la profondeur USDH-59, utilisé comme une ligne dans les cours d'eau petits et moyens;

(c) Les échantillonneurs intégrateurs selon la profondeur USD-49 et USD-74 fixés au bout d'une corde s'enroulant autour d'un moulinet et employés dans les cours d'eau gros ou moyens dont la profondeur est inférieure à cinq mètres;

(d) Les échantillonneurs intégrateurs USP-61, USP-61-A1, USP-63 et USP-72, employés ponctuellement ou sur toute la verticale, et utilisés lorsque la profondeur est supérieure à cinq mètres ou dans les sections transversales qui connaissent un débit très élevé;

(e) Un échantillonneur automatique permettant le prélèvement en bouteilles, sans surveillance, d'échantillons uniques d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;

(f) L'échantillonneur USBM-54 employé pour le prélèvement d'échantillons des matériaux du lit dans les cours d'eau importants ou profonds ou dans les cours d'eau dont le fond est dur;

(g) L'échantillonneur USBMH-60 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau importants ou profonds, ou dans les cours d'eau dont le fond est meuble;

(h) L'échantillonneur USBMH-53 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau petits ou peu profonds;

(i) La drague employée pour le prélèvement d'échantillons des matériaux du lit dans de petits cours d'eau ou dans des cours d'eau dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation de la hauteur des eaux, la mesure du débit de l'eau, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. Les mesures du débit de l'eau et du débit des sédiments se font conjointement, suivant les méthodes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) La mesure périodique du débit des sédiments en suspension par la méthode d'intégration sur toute la profondeur

depth-integrating method for determining the average suspended sediment concentration in the cross section.

(b) Single suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment load measurements are not taken.

(c) Limited measurement of suspended sediment load by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross section.

(d) Sampling of bed material for determining particle-size distribution.

(e) Periodic measurement of bed load.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Load by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the suspended sediment load carried in the entire cross section of a stream, the average suspended sediment concentration in the cross section, and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the water surface to the streambed and could vary from streambank to streambank.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross section is divided into at least five equal-flow portions and a representative suspended sediment sample is collected from each portion. For each part of the cross section, the suspended sediment load (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment load (R) for the cross section may be computed by adding the sediment loads for the five equal-flow portions:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

The depth-integrating method of sampling is used to measure the suspended sediment concentration. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

(b) *Single Suspended Sediment Samples at a Selected Vertical*: Single suspended sediment samples, consisting of two bottles each, are collected routinely using the depth or point-integrating samplers at a permanently fixed vertical in a cross section. During periods of very heavy sediment concentration, two or three single sediment samples may be taken per day, while during periods of low concentration, one single sediment sample may only be taken every few days. During extremely low flow periods, the sampling may be limited to one single sample in several weeks or months.

(c) *Suspended Sediment Load by Point-Integrating Method*: A limited number of suspended sediment load measurements are made by the point-integrating method. These measurements are included in the program (a) to check by comparison the "measured" sediment loads obtained by the depth-integrating method with the suspended sediment loads by the point-integrating method and (b) to obtain samples from which to determine particle-size distribution

pour la détermination de la concentration moyenne dans une section transversale;

(b) Le prélèvement d'échantillons uniques des sédiments en suspension selon une verticale choisie, afin de determiner la concentration des sédiments les journées où le débit des sédiments en suspension n'est pas mesuré;

(c) Un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) L'échantillonnage des matériaux du lit afin d'en déterminer la granulométrie;

(e) La mesure périodique du charriage.

Voici une brève description des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer le débit des sédiments en suspension traversant toute une section transversale d'un cours d'eau, la concentration moyenne des sédiments en suspension dans la section transversale et la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente généralement avec la profondeur et qu'elle peut varier d'une rive à l'autre d'un cours d'eau.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches où le débit est égal et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R) pour la section transversale est la somme des débits des sédiments des cinq tranches:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

La méthode par intégration sur toute la profondeur est employée pour mesurer la concentration des sédiments en suspension. Elle suppose que l'échantillonneur se remplit à un rythme proportionnel au débit de l'eau et qu'en étant déplacé à une vitesse uniforme sur toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de celle-ci.

(b) *Prélèvement d'échantillons uniques de sédiments en suspension sur une verticale choisie*: De tels échantillons, constitués chacun de deux bouteilles, sont prélevés régulièrement à l'aide d'appareils intégrateurs, selon la profondeur ou ponctuels, sur une verticale permanente d'une section transversale. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon peut être prélevé à quelques jours d'intervalle lorsqu'elle est faible. Au cours des périodes où le débit est extrêmement faible, l'échantillonnage peut être limité à un échantillon toutes les quelques semaine ou tous les quelques mois.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: Un nombre limité de mesures du débit des sédiments en suspension sont faites avec cette méthode. On y a recours a) pour vérifier les valeurs du débit mesurées au moyen de la méthode précédente et b) pour obtenir des échantillons en vue de déterminer la granulométrie des sédiments en divers points de la

at different points in the cross section. The point-integrating sediment loads are computed by graphical methods.

The relationship between the suspended sediment concentration of the single vertical samples and the average concentration in the cross section determined from the suspended sediment load measurements is established for some stations. Using this relationship, the sediment concentrations of the single vertical samples are adjusted to reflect the average suspended sediment concentration in the cross section. These average sediment concentrations in the cross sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a Digital minicomputer.

The daily suspended sediment loads are computed on the basis of stream discharges and the collected suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration (mg/L), by the daily mean discharge (m^3/s), and the conversion factor, 0.0864.

(d) *Bed Material Sampling*: In a cross section, bed material samples are usually taken in the same sampling verticals as the suspended sediment samples. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross section. The total number of bed material samples taken in a cross section usually varies between five and nine.

(e) *Bed Load Measurement*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Load*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario; and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) filtration method, (2) evaporation method and (3) determination of total dissolved solids by evaporation method.
(b) particle-size distribution analysis by (1) bottom withdrawal tube method, (2) sieving and (3) hydrometer method.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

section transversale. Cette méthode fait appel à des graphiques pour le calcul du débit des sédiments.

Le rapport entre la concentration des sédiments en suspension dans les échantillons prélevés sur une seule verticale et la concentration moyenne dans la section transversale, telle que déterminée à partir des mesures du débit des sédiments en suspension, est établi pour quelques stations. Il permet de corriger les concentrations mesurées à une seule verticale de manière à donner la concentration moyenne dans la section transversale. Les concentrations moyennes ainsi déterminées sont reportées sur un graphique, et une courbe lisse passant par les points marqués est tracée. Le graphique obtenu représente la concentration moyenne des sédiments en suspension pour la période de relevé. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

Les valeurs journalières du débit des sédiments en suspension sont calculées à partir du débit du cours d'eau et des concentrations des sédiments en suspension recueillis. Elles sont exprimées en tonnes par jour. On les détermine en multipliant la concentration moyenne journalière des sédiments (mg/L) par le débit moyen journalier (m^3/s) et par un facteur de conversion approprié, 0.0864.

(d) *Échantillonnage des matériaux du lit*: Dans une section transversale, les échantillons des matériaux du lit sont ordinairement prélevés aux mêmes verticales que ceux des sédiments en suspension. Souvent, des échantillons supplémentaires sont pris près des rives, là où le niveau d'eau est extrême et à d'autres points de la section transversale. Leur nombre total pour une section donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du charriage*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.). Le choix se fondera sur la nature du régime du cours d'eau.

4. *Débit solide total*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) filtration, (2) évaporation, et (3) détermination des matières dissoutes totales par évaporation.
(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par l'emploi de tamis et (3) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à corriger les résultats pour tenir compte des matières dissoutes. La quantité de celles-ci est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Particle-size analysis was carried out for some suspended sediment samples having gross weights in the range of 0.15 to 5 g using the Bottom Withdrawal Tube method. The particle-size distribution of the Bottom Withdrawal Tube method ranges from 0.002 to 1.000 mm. The Sieve analysis method may be used for samples with a large amount of material coarser than 0.062 mm.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.000 24 – 0.004
Silt	0.004 – 0.062
Sand	0.062 – 2.0
Gravel	2.0 – 64.0

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analyzed in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbols A, B, E on the daily mean discharge and the S on the daily mean concentration.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those records obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

Une analyse granulométrique a été effectuée pour certains échantillons de sédiments en suspension ayant un poids brut dans l'intervalle de 0.15 à 5 g par la méthode de la burette (extraction des sédiments déposés, à divers intervalles). La distribution de la taille des particules déterminée par cette méthode varie de 0.002 à 1.000 mm. La méthode de tamisage peut être employée pour les échantillons ayant une forte quantité de particules de taille supérieure à 0.062 mm.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.000 24 – 0.004
Limon	0.004 – 0.062
Sable	0.062 – 2.0
Gravier	2.0 – 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique avant d'être analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sédiments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée d'après la fréquence d'utilisation des symboles A, B, E, avec les données sur le débit journalier moyen, et S, avec celles sur la concentration journalière moyenne.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas des petits cours d'eau ou des cours d'eau à crues très rapides.

METHOD OF TABULATION OF SEDIMENT DATA

For stations where the suspended sediment load was obtained, the following data are given where available:

1. The table of *Suspended Sediment Load* includes the daily mean discharge in cubic metres per second, the daily mean concentration in milligrams per litre, and the daily suspended sediment load in tonnes per day. The total monthly discharge and total monthly sediment load is also given for complete months of record.

   For stations where the sediment load in tonnes per day are produced for complete or partial years, the *Total Suspended Load* for the period is given in the descriptive information.

   For stations where only suspended sediment concentrations are obtained, the table of *Suspended Sediment Load* will not be given.

   Additional descriptive information about the sediment station is also given above the table of *Suspended Sediment Load* and will indicate the following, where applicable.

   Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

   Drainage area – refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

   Natural Flow or *Regulated Flow* – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

   Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

   (a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

   (b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

   International Gauging Stations – on waters adjacent to the international boundary, certain gauging stations have been

PRÉSENTATION DES TABLEAUX DE DONNÉES SUR LES SÉDIMENTS

Pour les stations de mesure du débit des sédiments en suspension, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. Le tableau concernant le *débit des sédiments en suspension* (The table of Suspended Sediment Load) donne le débit journalier moyen de l'eau, en mètres cubes par seconde, la concentration journalière moyenne, en milligrammes par litre, et le débit journalier des sédiments en suspension, en tonnes par jour. Les mois où les données sont complètes, sont également indiqués les débits mensuels totaux de l'eau et des sédiments.

   Dans le cas des stations où le débit des sédiments, en tonnes par jour, est fourni pour une année complète ou une partie de l'année, le total pour la période est indiqué.

   Dans le cas des stations où seule la concentration des sédiments en suspension est obtenue, ce tableau est absent.

   Des renseignements descriptifs additionnels au sujet de la station sont également présentées au-dessus du tableau. On peut y apporter les précisions suivantes:

   Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à une bonne distance de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

   Superficie du bassin versant (Drainage area) – Désigne la zone délimitée par une ligne de faîte de sorte que l'écoulement de surface direct provenant des précipitations est entraîné par gravité vers le cours d'eau, en amont de la station.

   Débit naturel ou *régularisé* (Natural Flow ou Regulated Flow) – Un débit reconnu comme naturel est indiqué. Le débit de nombreux réseaux hydrographiques est modifié par une régularisation effectuée en amont. Dans certains cas, l'importance de cette régularisation n'est pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique, ainsi que l'année où elle a débuté (si elle est connue).

   Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau ou le débit d'un cours d'eau.

   (a) *Manuelle* (Manual) – Indique qu'un appareil non enregistreur est employé pour obtenir normalement une fois par jour les données sur le niveau et le débit du cours d'eau.
   (b) *Enregistreuse* (Recording) – Indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux qui est tracé sur un graphique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

   Stations internationales de jaugeage (International Gauging Stations) – Dans les eaux contiguës aux frontières, on a

designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

2. The table of *Instantaneous Suspended Sediment Concentration* for depth-integrating samples gives the particle-size distributions, in Percent Finer, in millimetres for each sample collected, if available. The Date and Time of the sample collection; Water Temperature; Instantaneous Discharge, if not available the daily mean discharge should be given and indicated by a symbol; Single Sampling Vertical location; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used is also given where available.

   For the suspended sediment measurements, the date, time, water temperature at time of sampling, computed discharge for each sampling panel, concentration and the sampling vertical, coded with the symbol (M) to indicate a sampling vertical of a suspended sediment measurement are given.

3. The table of *Point Integrating Particle-size of Suspended Sediment* gives the particle-size distribution, in Percent Finer, in millimetres, for each sample collected in the measurement. The Date and Time of the sample collection; Instantaneous Discharge for each sampling vertical; Water Temperature; Sampling Vertical; Sample Depth; Concentration in milligrams per litre; Dissolved Solids, in milligrams per litre, and the Percent Sand, Silt and Clay are also given. The Type of Sampler used in the collection of the samples is indicated at the bottom of the table.

4. The table of *Bed Load Particle-size* gives the particle-size distribution, in Percent Finer, in millimetres, for each sample of bed load collected. The Date and Time of the sample collection; Instantaneous Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample are also given.

5. The table of *Bed Material Particle-size* gives the particle-size distribution, in Percent Finer, in millimetres, for each sample of bed material collected. The Date and Time of the sample collection; Instantaneous Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample are also given.

désigné certaines stations comme «internationales», et les données obtenues sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publications et dans les *United States Water Supply Papers* sont dues à des variantes dans les techniques de traitement automatique des données.

Données fournies (Contributed Data) – Lorsqu'un organisme extérieur a fourni toutes les données ou une partie des données, son nom est indiqué.

Remarques (Remarks) – Renseignements au sujet du prélèvement des échantillons de sédiments.

2. Le tableau des *concentrations instantanées de sédiments en suspension* (The table of Instantaneous Suspended Sediment Concentration) pour les échantillons obtenus par intégration selon la profondeur donne la granulométrie des sédiments, en pourcentage des particules de taille inférieure à une taille donnée, en millimètres, pour chaque échantillon recueilli, si elle est connue. Sont également indiqués la date et l'heure de prélèvement; la température de l'eau; son débit instantané (s'il n'est pas connu, le débit journalier moyen, avec symbole); l'emplacement de la verticale d'échantillonnage; la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé, si connu.

   Pour les mesures des sédiments en suspension, la date, l'heure, la température de l'eau au moment de l'échantillonnage, le débit calculé pour chaque tranche de la section d'échantillonnage, la concentration et la verticale d'échantillonnage, avec le code M pour indiquer une verticale d'échantillonnage d'une mesure des sédiments en suspension, sont donnés.

3. Le tableau de la *granulométrie des échantillons ponctuels et intégrés des sédiments en suspension* (The table of Point Integrating Particle-size of Suspended Sediment) donne les pourcentages de particules de taille inférieure aux tailles indiquées, en millimètres, pour chaque échantillon prélevé pour la mesure. Sont également indiqués la date et l'heure de prélèvement de l'échantillon, le débit instantané pour chaque verticale d'échantillonnage, la température de l'eau, la verticale d'échantillonnage, la profondeur de l'échantillon, la concentration des sédiments, en milligrammes par litre, la concentration des matières dissoutes, en milligrammes par litre, et les pourcentages de sable, de limon et d'argile. Le type d'échantillonneur employé est indiqué au bas du tableau.

4. Le tableau de la *granulométrie des sédiments charriés* (The table of Bed Load Particle-size) donne le pourcentage des particules de taille inférieure aux tailles indiquées, en millimètres, pour chaque échantillon recueilli du charriage. Sont également indiqués la date et l'heure de prélèvement de l'échantillon, le débit instantané, la verticale d'échantillonnage et le type d'échantillonneur employé.

5. Le tableau de la *granulométrie des matériaux du lit* (The table of Bed Material Particle-size) donne le pourcentage des particules de taille inférieure aux tailles indiquées, en millimètres, pour chaque échantillon recueilli. Sont également indiqués la date et l'heure de prélèvement de l'échantillon, le débit instantané, la verticale d'échantillonnage et le type d'échantillonneur employé.

6. The table of *Historical Sediment Data Summary* gives the following, for the period of record, where applicable.

   (a) Period of Record
   (b) Type of Operation
   (c) Sampled Concentration
   (d) Suspended Sediment Load
   (e) Summary.

(a) The *Period of Record* gives the first and last month of record for the year, i.e. (APR-DEC) for April to December. If the *Period of Record* is incomplete this is indicated by an octothorpe (#).
(b) The *Type of Operation* shows *method of sampling* and the *operation schedule*, which are presented as two symbols i.e. M-S.

The first symbol is the *method of sampling* and could be one of the symbols (A), (B) or (M). The symbol (A) indicates that the method of sample collection was by an automatic sampler; (M) represents manual sampling. If samples during the year or season were collected by both automatic sampling and manual methods, this would be indicated by the symbol (B) for both.

The second symbol is the *operation schedule* which is represented by one of the symbols (C), (MS) or (S). The symbol (C) indicates that sediment loads are continuous for the entire year. The symbol (S) indicates that records are available only for partial year or seasonal. If records are available only for individual days of a year, this is indicated by the symbol (MS) for miscellaneous.

(c) The *Sampled Concentration* gives the maximum and minimum concentration, in milligrams per litre, and the date of collection for each year of record. The extreme recorded for the period of record is indicated by an asterisk (*).

(d) The *Suspended Sediment Load* gives the maximum daily load, in tonnes, and the date of occurrence. The extreme recorded is indicated by an asterisk (*). The Total for the Period gives the total load for the period or year, in tonnes. The extreme recorded is also indicated by an asterisk (*). A load which has been revised since the previous publication is marked with the symbol (R) for Revision.
(e) The *Summary* gives the *Mean Load* and the *Historical Mean Load* in tonnes.

The *Standard Error of the Mean* % is calculated using the following equation.

$$\frac{\sigma}{\bar{x} \times \sqrt{n}} \times 100\%$$

For stations with only instantaneous samples, this table will not include the *Suspended Sediment Load* or the statistical information in the *Summary*.

6. Le tableau du *sommaire chronologique des données sur les sédiments* (The table of Historical Sediment Data Summary) donne, pour la période pour laquelle les données sont disponibles, les renseignements suivants lorsque de telles données existent:

   (a) La période de relevé
   (b) Le type d'exploitation
   (c) Les concentrations mesurées
   (d) Le débit des sédiments en suspension
   (e) Le résumé.

(a) La *période de relevé* (Period of Record) donne le premier et le dernier mois des données au cours de l'année; ex.: (APR-DEC) pour avril à décembre. Le symbole # indique la *période de relevé* est incomplète.
(b) Sous le *type d'exploitation* (Type of Operation) on donne la *méthode d'échantillonnage* et le *calendrier d'exploitation*, qui sont présentés sous forme de deux symboles; ex.: M-S.

Le premier symbole correspond à la *méthode d'échantillonnage*; ce peut être un A, un B ou un M. Un A indique que l'échantillonnage a été fait au moyen d'un appareil automatique; un M, qu'il était manuel; et un B, que durant l'année ou la saison des méthodes manuelles et automatiques ont été employées.

Le deuxième symbole code pour le *calendrier d'exploitation*; ce peut être un C, un MS ou un S. Un C indique que les mesures du débit des sédiments se font pendant toute l'année; un S, que les données ne sont disponibles que pour une partie de l'année ou sont saisonnières; un MS, que les données ne sont disponibles que pour certains jours de l'année.

(c) Pour les *concentrations mesurées* (Sampled Concentration), on donne la concentration maximale et la concentration minimale, en milligrammes par litre, et leur date d'obtention pour chaque année de relevé. La valeur extrême enregistrée est indiquée par un astérisque (*).
(d) Sous le *débit des sédiments en suspension* (Suspended Sediment Load), on donne le débit journalier maximal, en tonnes, et sa date de mesure. Le débit extrême enregistré est indiqué par un astérisque (*). Le débit total pour la période ou pour l'année est indiqué. La valeur extrême est également signalée par un astérisque (*). La lettre R indique qu'une valeur du débit a été révisée depuis la dernière publication.
(e) Le *résumé* donne le *débit moyen* et le *débit moyen chronologique*, en tonnes.

L'*erreur-type de la moyenne* (Standard Error of the Mean), en pourcentage, est calculée à l'aide de l'équation suivante:

$$\frac{\sigma}{\bar{x} \times \sqrt{n}} \times 100\%$$

Dans le cas des stations ne prélevant que des échantillons instantanés, ce tableau ne donnera pas le *débit des sédiments en suspension* ni les données statistiques du *résumé*.

DEFINITION OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed material is the sediment mixture of which the streambed is composed.

Daily load is the suspended sediment load expressed in tonnes for a particular day. The daily load is obtained by multiplying the daily mean sediment concentration (mg/L) by the daily mean discharge (m^3/s) and the conversion factor, 0.0864.

Daily mean concentration is a time-weighted mean value and is computed from a manually constructed concentration curve. The mean concentration value may be determined arithmetically or graphically. The arithmetic mean is obtained either by (1) selecting values from the concentration graph that represents uniform intervals of time and taking the arithmetic average or by (2) selecting values from the graph that represent unequal intervals of time and weighing these values by the time intervals represented by the concentrations. For graphical explanation refer to *Office Procedures for Sediment Data Computations* and for the automated graphical explanation refer to *Automated Hydrometric Computation Procedures*.

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Instantaneous suspended sediment sample is a sample collected at a fixed vertical in a river cross section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of particles in a sediment sample.

Point-integrated sediment sample is a sample of the water-sediment mixture taken over a specified period of time at a fixed point and depth in a river cross section.

DÉFINITION DES TERMES

Les définitions suivantes sont présentées afin de faciliter la compréhension des termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): Prélèvement d'un mélange de sédiments et d'eau au moyen d'une pompe fonctionnant automatiquement, en un point précis d'un cours d'eau.

Charriage (Bed load): Matières roulées ou poussées sur le fond sous l'action de l'eau, mais restant en contact presque permanent avec le fond.

Matériau du lit (Bed material): Mélange de sédiments composant le lit d'un cours d'eau.

Débit journalier des sédiments en suspension (Daily load): Débit des sédiments en suspension exprimé en tonnes par jour, pour une journée donnée. On l'obtient en multipliant la concentration journalière moyenne des sédiments (mg/L) par le débit journalier moyen de l'eau (m^3/s) et le facteur de conversion 0.0864.

Concentration journalière moyenne (Daily mean concentration): Moyenne pondérée en fonction du temps, calculée à partir d'une courbe de la concentration établie manuellement. La valeur de la concentration moyenne peut être déterminée arithmétiquement ou graphiquement. Pour la déterminer arithmétiquement, on peut, soit choisir sur la courbe des valeurs représentant des intervalles uniformes de temps et faire la moyenne arithmétique, soit choisir sur cette courbe des valeurs qui représentent des intervalles inégaux de temps et pondérer ces valeurs en fonction des intervalles de temps correspondants. En ce qui concerne les méthodes graphiques, consulter *Méthodes de bureau pour les calculs de données sur les sédiments* et, pour la méthode automatisée, *Automated Hydrometric Computation Procedures*.

Échantillon intégré sur toute la profondeur (Depth integrated sediment sample): Échantillon des sédiments en suspension prélevé sur une verticale précise d'une section transversale d'un cours d'eau à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante; il représente un échantillon moyen des matières en suspension entre la surface de l'eau et environ 9 cm du fond.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): Échantillon prélevé à une verticale précise d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): Débit des sédiments en suspension qui peut être calculé à partir du débit du cours d'eau et de la concentration des sédiments déterminée à partir d'échantillons intégrés sur toute la profondeur.

Analyse granulométrique (Particle-size analysis): Détermination de la répartition de la taille des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré (Point-integrated sediment sample): Échantillon constitué d'un mélange d'eau et de sédiments, prélevé au cours d'une période de temps donnée en un point précis d'une section transversale d'un cours d'eau et à une profondeur donnée.

Sediment is fragmental material which has deposited, eroded or transported by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Single sample is a sample taken at a selected permanent vertical in a cross section. Two bottles of water-sediment mixture make up each single sample.

Single sampling vertical is a selected permanent vertical in a cross section in which single suspended sediment samples are collected.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. The units of this ratio are "milligrams per litre" (mg/L).

Suspended sediment load is the quantity of suspended sediment transported through a cross section per unit of time.

Total sediment load is the sum of the suspended sediment load and the bed load.

Unmeasured sediment load is the difference between total sediment load and measured suspended sediment load.

Sédiments (Sediment): Matières fragmentaires qui ont été déposées, érodées ou transportées par un cours d'eau.

Hydrogramme des sédiments (Sediment hydrograph): Graphique représentant la variation de la concentration des sédiments en suspension ou du débit des sédiments en fonction du temps.

Échantillon unique (Single sample): Échantillon prélevé sur une verticale permanente particulière dans une section transversale. Deux bouteilles du mélange eau-sédiments constituent un seul échantillon.

Verticale d'échantillonnage unique (Single sampling vertical): Verticale permanente d'une section transversale où des échantillons uniques de sédiments en suspension sont prélevés.

Sédiments en suspension (Suspended sediment): Matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): Rapport entre le poids des matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Les unités employées sont les «milligrammes par litre» (mg/L).

Débit des sédiments en suspension (Suspended sediment load): Quantité de sédiments en suspension transportés par unité de temps à travers une section transversale d'un cours d'eau.

Débit total des sédiments (Total sediment load): Somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments (Unmeasured sediment load): Différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

DEFINITION OF SYMBOLS

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – Ice Conditions – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates estimated data. It indicates that the values between collected sediment samples of a peak period are estimated by some indirect method such as interpolation, extrapolation, from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

H – Daily Mean Discharge – is the mean discharge for a particular day, usually referred to as the "daily discharge".

S – Sample(s) collected this day – indicates that a depth-integrated or point-integrated measurement, single vertical sample(s) or a sample collected by an automatic sampling device, was collected this day.

DÉFINITIONS DES SYMBOLES

A – Turbidisonde simple – Indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

B – Glaces – Indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – Estimative – Indique des données estimatives, c'est-à-dire que les valeurs fournies entre les prélèvements d'échantillons d'une période de débit de pointe, sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

H – Débit journalier moyen – Debit moyen pour une journée donnée, ordinairement appelé «débit journalier».

S – Échantillon(s) prélevé(s) en ce jour – Indique qu'on a prélevé ce jour-là un (ou des) échantillon(s), intégré(s) selon la profondeur ou ponctuel(s), sur une (ou des) verticale(s) d'échantillonnage, ou qu'on a prélevé un échantillon au moyen d'un dispositif d'échantillonnage automatique.

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other federal and provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the *Sediment Data Reference Index*.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Dans les eaux adjacentes à la frontière internationale, les stations dépendent du Canada ou des États-Unis selon l'accord intervenu entre les deux pays, et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées pour l'obtention des données sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when the data were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway.

Revisions to daily discharges or sediment data are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Revisions, corrections or additions made to discharges and sediment after January 1, 1980, are indicated by an "R" symbol in the data summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

RÉVISIONS

On a corrigé ou révisé des données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calcul lorsqu'on a enregistré les données sur rubans magnétiques et qu'on a recalculé les moyennes mensuelles à l'aide d'un ordinateur. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de certaines données de base au cours de la révision systématique des données historiques sur le débit, actuellement en cours.

Les corrections apportées aux débits journaliers ou aux données sur les sédiments ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont indiquées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données révisées sur les débits mensuels et annuels moyens et les extrêmes annuels du débit. Les révisions, corrections ou ajouts apportés aux données sur les débits et sur les sédiments après le 1er janvier 1980 sont indiqués par la lettre R dans les résumés des données. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

MICROFICHE

All sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by province. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, province, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

MICROFICHE

Toutes les données sur les sédiments sont disponibles sur microfiche en unités métriques. Ces données sont emmagasinées par ordre de numéro de station et par province. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la province, le numéro de la première et de la dernière station, la première et la dernière année des données ainsi que le mois et l'année de création de la fiche. La dernière image donne l'index de la fiche.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit – 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 1.6093 km (kilomètre)

1 cm (centimètre) vaut 0.393 70 pouce
1 m (mètre) vaut 3.2808 pieds
1 km (kilomètre) vaut 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre vaut 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré vaut 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 259.0 ha (hectares)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) vaut 2.4710 acres
1 km^2 (kilomètre carré) vaut 0.386 10 mille carré

1 pied cube vaut 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial vaut 1.2010 gallon américain
1 gallon américain vaut 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour vaut 1.9835 acre-pied
1 pied cube par seconde pendant un jour couvre un volume d'un mille carré par 0.037 19 pouce
1 acre-pied vaut 1.2335 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde vaut 0.6818 mille par heure
1 mille par heure vaut 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètres par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde vaut 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) vaut 35.315 pieds cubes par seconde

1 livre vaut 0.453 59 kg (kilogramme)
1 kg (kilogramme) vaut 2.2046 livres

1 tonne courte (2000 livres) vaut 0.907 18 t (tonne)
1 t (tonne) vaut 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit – 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

ONTARIO

ABITIBI RIVER AT ONAKAWANA - STATION NO. 04HE003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)			MINIMUM (mg/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	JUL-JUL	M-MS	48	JUL 27		48	JUL 27		---	---	---	---	---
1983	MAY-OCT #	M-MS	120	MAY 15	*	6	AUG 04	*	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

ALBANY RIVER ABOVE NOTTIK ISLAND - STATION NO. 04GD001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)			MINIMUM (mg/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	MAY-OCT #	M-MS	8	MAY 14	*	1	OCT 25	*	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

ALBANY RIVER NEAR HAT ISLAND - STATION NO. 04HA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)			MINIMUM (mg/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	MAY-AUG #	M-MS	15	JUN 21		6	AUG 22		---	---	---	---	---
1976	MAY-MAY	M-MS	11	MAY 29		11	MAY 29		---	---	---	---	---
1977	JUN-JUN	M-MS	11	JUN 02		11	JUN 02		---	---	---	---	---
1978	AUG-AUG	M-MS	40	AUG 10		40	AUG 10		---	---	---	---	---
1980	AUG-AUG	M-MS	71	AUG 13		71	AUG 13		---	---	---	---	---
1981	MAY-OCT #	M-MS	711	MAY 10	*	44	AUG 09		---	---	---	---	---
1982	MAY-JUL #	M-MS	102	MAY 13		55	JUL 28		---	---	---	---	---
1983	MAY-NOV #	M-MS	120	MAY 12		3	AUG 09	*	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

ASHEWEIG RIVER AT STRAIGHT LAKE - STATION NO. 04BB001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)			MINIMUM (mg/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	JUN-SEP #	M-MS	5	SEP 27	*	3	JUN 08	*	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

ONTARIO

ATTAWAPISKAT RIVER BELOW MUKETEI RIVER - STATION NO. 04FC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1976	MAY-AUG #	M-MS	20	JUL 05	7	AUG 23	...	...	...	...	...
1976	MAY-MAY	M-MS	11	MAY 30	11	MAY 30	...	...	...	...	...
1977	JUN-JUN	M-MS	10	JUN 04	10	JUN 04	...	...	...	...	...
1980	AUG-AUG	M-MS	80	AUG 13 *	80	AUG 13	...	...	...	...	...
1981	SEP-SEP	M-MS	70	SEP 30	70	SEP 30	...	...	...	...	...
1982	MAY-OCT #	M-MS	69	MAY 17	7	OCT 18	...	...	...	...	...
1983	MAY-OCT #	M-MS	31	OCT 27	1	AUG 08 *	...	...	...	...	...

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

\# - PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 04 20 N LONG 81 39 35 W
DRAINAGE AREA: 985 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 42 911.23 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	3.10 B	28	7.50	1.20 B	10	1.04	5.80 B	15	7.74	1
2	3.00 B	28	7.26	1.15 B	10 S	0.98	5.40 B	14	6.53	2
3	2.85 B	28	6.89	1.30 B	14	1.57	5.70 B	15	7.38	3
4	2.75 B	26	6.18	1.60 B	39	5.39	5.40 B	13	6.07	4
5	2.65 B	30	6.87	1.80 B	74	11.9	5.05 B	13 S	5.87	5
6	2.70 B	31	7.23	2.05 B	79	14.0	4.80 B	12 S	4.98	6
7	2.80 B	29	6.51	2.23 B	84 S	12.7	4.40 B	12	4.58	7
8	2.50 B	26	6.05	2.45 B	82	13.1	4.15 B	13	4.68	8
9	2.35 B	27	5.48	2.75 B	82	14.7	3.85 B	12	3.99	9
10	2.25 B	26	5.05	3.20 B	84	17.7	3.85 B	11	3.47	10
11	2.15 B	27 S	5.02	4.00 B	88	22.8	3.45 B	10	2.98	11
12	2.05 B	26	4.69	9.00 B	76	59.1	3.30 B	8	2.28	12
13	2.03 B	27	4.74	68.7	99 S	588	3.20 B	11	3.04	13
14	1.95 B	26	4.38	226	213 S	4 160	3.15 B	13	3.54	14
15	1.85 B	24	3.84	217	125 S	2 340	3.15 B	16 S	4.35	15
16	1.80 B	26	4.04	172	100 S	1 490	29.3	588 S	1 490	16
17	1.70 B	25	3.67	133	66 S	761	84.5	593	4 330	17
18	1.65 B	27	3.85	89.5	56 S	433	58.8	140	711	18
19	1.58 B	26	3.55	64.1	48 S	255	42.2	105	383	19
20	1.50 B	22	2.85	55.9	34 S	164	29.6	388	999	20
21	1.42 B	18	2.21	47.4	27 S	111	51.8	237 S	1 060	21
22	1.35 B	17	1.88	34.2	24 S	70.9	57.4	176	873	22
23	1.30 B	13	1.46	25.5	25 S	55.1	35.1	86 S	170	23
24	1.25 B	10	1.08	21.8	24	45.2	23.7	82	166	24
25	1.20 B	11	1.14	19.0	20	32.8	24.3	123	258	25
26	1.25 B	11	1.19	16.0	19	26.3	29.8	85 S	217	26
27	1.45 B	8 S	1.00	12.9	15	16.7	20.3	86 S	173	27
28	1.40 B	8	0.97	9.80 B	16	13.3	28.6	44	109	28
29	1.35 B	8	0.93	8.20 B	16	8.57	25.0	37 S	79.8	29
30	1.30 B	10	1.12				22.7	38	74.5	30
31	1.24 B	11	1.18				20.0	38	65.7	31
TOTAL	59.56		119.81	1 251.53		10 785.46	857.45		11 232.35	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	17.1	41	60.6	5.36	73 S	33.9	11 8	123 S	126	1
2	16.3	41 S	54.2	4.87	85 S	27.9	9.53	118 S	97.2	2
3	13.8	86 S	77.5	4.49	73 S	26.3	7.80	143 S	97.6	3
4	12.3	84 S	67.4	4.20	85 S	31.2	9.39	139 S	113	4
5	11.9	85	66.5	3.89	88 S	30.3	8.40	147 S	107	5
6	14.6	70	88.3	3.74	105 S	33.9	7.75	136 S	91.1	6
7	15.5	48 S	65.6	3.32	111 S	31.8	7.13	125 S	77.0	7
8	14.0	36	43.5	3.28	108 S	29.9	6.49	138 S	101	8
9	11.8	40	40.8	3.34	105 S	30.3	6.97	132	79.5	9
10	9.99	64 S	46.8	3.39	106 S	31.0	7.26	259 S	162	10
11	8.94	87 S	42.1	3.11	111 S	29.8	5.06	222 S	116	11
12	7.83	81 S	38.7	2.88	113 S	27.9	4.23	181 S	66.2	12
13	8.04	82 S	37.2	3.05 E	110 S	34.7	3.23	136 S	38.7	13
14	8.88	86 S	37.6	10.5 E	104 S	94.3	3.01	135 S	35.1	14
15	8.16	87 S	30.3	8.00 E	82 S	56.7	3.52	143 S	43.8	15
16	8.19	88 S	48.1	5.80 E	82 S	41.1	2.54	105 S	23.0	16
17	22.9	123 S	243	4.80	111 S	44.1	9.34	240 S	194	17
16	22.3	97 S	110	4.08	118	40.5	74.2	434 S	2 780	18
19	18.9	37 S	63.8	4.19	104 S	37.8	46.8	96 S	232	19
20	17.4	35 S	52.8	3.98	112	38.5	25.5	63 S	139	20
21	15.0	32 S	41.5	3.78	135 S	40.8	15.9	88 S	135	21
22	12.2	27 S	28.5	3.38	117 S	33.2	10.4	121 S	109	22
23	10.8	23	21.1	4.89	140 S	58.1	7.22	111 S	69.3	23
24	10.2	27 S	23.8	7.28	138 S	85.5	5.54	84 S	45.0	24
25	11.5	65 S	64.8	6.66	135 S	71.9	4.78	85 S	35.0	25
26	10.3	69 S	61.4	13.5	229 S	267	3.88	90 S	30.2	26
27	8.63	72 S	54.9	15.6	113 S	154	3.26	100 S	28.3	27
28	7.72	61	40.7	10.7	93 S	86.0	3.73	99 S	31.9	28
29	8.63	62 S	39.6	14.5	156 S	196	4.16	94 S	33.6	29
30	9.67	64	32.5	16.7	86 S	127	3.02	87 S	22.7	30
31				14.0	84 S	104				31
TOTAL	361.56		1 693.8	301.52		1 980.0	337.14		8 380.0	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	2.38	83 S	17.1	0.526	110 S	5.00	2.11	118 S	21.5	1
2	1.82	90 S	14.2	0.543	90 S	4.22	2.48	125 S	26.8	2
3	1.50	87 S	11.3	0.544	88	4.14	6.13	206 S	109	3
4	1.36	78 S	9.28	0.551	90 S	4.26	5.60	185 S	78.6	4
5	1.28	84 S	10.2	0.518	86	3.86	4.56	127 S	50.0	5
6	2.20	109 S	20.7	0.511	82	3.62	3.78	109 S	35.7	6
7	10.9	208 S	197	0.476	74 S	3.04	2.58	99 S	22.1	7
8	5.37	140 S	65.0	0.485	78	3.13	1.88	91 S	13.2	8
9	2.83	103 S	26.1	0.482	86	3.43	1.29	86 S	9.59	9
10	2.10	110 S	20.0	0.478	95 S	3.91	6.19	191 S	102	10
11	2.24	115 S	22.3	0.491	82 S	3.48	15.2	282 S	331	11
12	1.88	112 S	18.2	0.512	77 S	3.41	18.0	152 S	236	12
13	1.62	108	15.1	0.766	99 S	6.55	11.2	91 S	88.8	13
14	1.33	106 S	12.2	0.831	92 S	5.02	35.5	270 S	826	14
15	1.12	105	10.2	0.548	89 S	4.21	27.3	117 S	276	15
16	0.989	102 S	8.72	0.490	96 S	4.08	13.1	107 S	121	16
17	0.882	101 S	8.57	0.450	89 S	3.46	9.09	129 S	101	17
18	1.65	103 S	14.7	0.437	87 S	3.28	6.55	139 S	78.7	18
19	4.89	135 S	57.0	0.599	88 S	4.55	4.76	138	57.0	19
20	2.63	119	29.1	0.980	101 S	8.84	4.01	137 S	47.8	20
21	1.84	116 S	15.4	0.547	88 S	5.46	3.14	139	37.7	21
22	1.70	116 S	17.0	0.553	101 S	4.83	2.38	136 S	27.7	22
23	1.51	122 S	15.9	0.626	102 S	5.52	1.72	118	17.5	23
24	1.05	117 S	10.6	0.805	83 S	4.89	1.45	103 S	12.9	24
25	0.909	119 S	9.35	0.521	79 S	3.56	1.35	95 S	11.1	25
26	0.759	126 S	8.39	0.489	76 S	3.04	1.52	99 S	13.0	26
27	0.699	114 S	6.84	0.451	79 S	3.08	1.62	95 S	13.3	27
28	0.686	86 S	5.47	0.453	87 S	3.80	1.64	73 S	10.3	28
29	0.600	85 S	4.41	0.631	122 S	6.65	1.81	87 S	10.5	29
30	0.552	91 S	4.34	1.04	131 S	12.2	1.88	87 S	8.73	30
31	0.532	126 S	6.76	1.86	133 S	21.4				31
TOTAL	82.268		694.48	18.887		159.74	199.53		2 788.42	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	1.45	86 S	8.27	1.22	46 S	4.85	7.88	88	43.8	1
2	1.35	86	7.83	1.32	47	5.36	7.15	83	32.7	2
3	1.28	85	7.19	2.20 E	46	8.74	8.67	37 S	21.3	3
4	1.27	85	7.13	5.80 E	46	23.1	7.85	46	31.2	4
5	1.13	87 S	8.54	15.0 E	106 S	137	7.10 B	43	26.4	5
6	1.02	85	5.08	12.0 E	169	175	6.40 B	37	20.5	6
7	0.979	86	5.58	9.30 E	74	59.5	5.90 B	38	19.4	7
8	1.00	88 S	5.88	7.00 E	35 S	21.2	5.50 B	40	19.0	8
9	1.04	71	6.38	8.10 E	34	12.6	5.10 B	36	15.9	9
10	1.04	89	8.20	20.0 E	30	51.8	5.56	37	17.8	10
11	0.983	74 S	6.35	85.0 E	185 S	1 360	6.84	33	19.8	11
12	0.898	88	7.42	70.0 E	122	738	9.71	40 S	33.6	12
13	1.00	88	8.21	35.0 E	46 S	139	22.4	137	265	13
14	0.974	108 S	9.17	12.0 E	34	35.3	30.0	84	218	14
15	0.992	111	9.13	9.00 E	23 S	17.9	28.1	37	89.8	15
16	0.963	104	8.47	22.0 E	17	32.3	22.8	24	47.3	16
17	0.934	100 S	8.07	15.2 E	15	19.7	17.5	21	31.6	17
18	0.903	101	7.88	13.5 E	14	16.3	14.3	18	22.2	18
19	0.888	100	7.75	11.8 E	13 S	13.3	11.8	14 S	14.3	19
20	0.850	99 S	8.13	10.5 E	12 S	10.9	10.0	12	10.4	20
21	0.993	103	8.84	9.11	35	27.5	8.24	22 S	15.7	21
22	1.11	107	10.3	7.81	81 S	41.2	27.9	126	309	22
23	1.18	72	7.32	6.88	80	38.8	36.6	41	130	23
24	1.14	48 S	4.73	6.13	80	31.8	22.3	28 S	50.1	24
25	1.26	88	7.48	5.58	81 S	29.3	15.0 B	31	40.2	25
26	1.30	88	7.84	5.11	81	28.9	13.5 B	37	43.2	26
27	1.36	70 S	8.23	4.86	81	30.6	11.3	41	40.0	27
28	1.31	83	7.13	4.93	83	22.8	12.7	44 S	48.3	28
29	1.26	83	9.77	7.37	78 S	48.4	46.6	150	804	29
30	1.17	80	5.05	7.48	88	37.5	80.0	209	1 830	30
31	1.18	49	4.81				78.2	130	878	31
TOTAL	34.317		335.04	438.88		3 193.25	800.80		4 788.7	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 11	13:30	0.1	2.15	W	27	MID																DIP
JAN 27	15:00	0.1	1.45	W	7	MID																DIP
FEB 02	15:00	0.1	1.15	W	10	MID												385				DIP
FEB 07	14:00	0.1	2.23	W	64	MID																DIP
FEB 13	13:00	0.1	88.7		108	MID																DIP
FEB 14	11:00	0.1	237		279	MID	28	47	71	93	95	98	100									DIP
FEB 14	16:00	0.1	267		276	MID	28	51	71	90	94	97	99	99	100			138	2	51	47	DIP
FEB 14	18:30	0.1	288		278	MID												131	3	48	51	DIP
FEB 15	10:50	0.1	218		114	MID																DNS9
FEB 15	18:15	0.1	204		125	MID												186				DNS9
FEB 16	11:00		174		85	MID																DNS9
FEB 16	16:00		168		77	MID																DNS9
FEB 17	11:00		136		61	MID																DNS9
FEB 17	13:30		129		57	MID																DNS9
FEB 18	09:15		92.5		51	MID																DNS9
FEB 18	16:00		82.5		49	MID												226				DNS9
FEB 19	08:00		65.2		39	MID																DNS9
FEB 19	17:00		60.2		36	MID																DNS9
FEB 20	11:15		56.0		32	MID																DNS9
FEB 20	18:00		55.6		30	MID																DNS9
FEB 21	15:30		45.6		23	MID																DNS9
FEB 22	15:00		32.1		21	MID												287				DNS9
FEB 23	15:45		24.2		27	MID																DNS9
MAR 05	16:00		5.05	W	14	MID																DNS9
MAR 08	12:30	0.1	4.80	W	9	MID																DNS9
MAR 15	12:45		3.15	W	14	MID																DNS9
MAR 16	15:25		37.8		770	MID												423				DIP
MAR 21	15:45		60.5		291	MID	31	51	71	89	98	98	100					217	1	48	51	DIP
MAR 23	15:45		32.3		53	MID	38	53	75	90	99	100						237	**	**	53	DIP
MAR 26	10:45		30.7		88	MID																DIP
MAR 27	13:30		39.0		60	MID																DNS9
MAR 28	15:50		24.7		39	MID																DNS9
APR 02	10:30		15.3		38	MID																DIP
APR 03	14:00		13.8	H	48	MID																DNS9
APR 04	13:00		12.3	H	40	MID																DNS9
APR 07	16:15		15.5		42	MID																DNS9
APR 10	10:30		10.1		58	MID												385				DNS9
APR 11	19:00		8.54	H	55	MID																DNS9
APR 12	15:20	12.8	7.34		52	MID																DNS9
APR 13	11:00		8.94	H	60	MID																DNS9
APR 14	09:25	11.4	8.46		58	MID																DNS9
APR 15	11:30		8.18	H	56	MID																DNS9
APR 16	18:00		7.81		51	MID																DNS9
APR 17	12:00		22.9	H	118	MID																DNS9
APR 18	16:15		21.7		45	MID																DNS9
APR 19	15:45	5.0	19.1		36	MID																DNS9
APR 20	15:30	7.5	17.0		32	MID												418				DNS9
APR 21	10:00	7.0	15.1		34	MID																DNS9
APR 22	12:00		12.1		28	MID																DNS9
APR 24	12:15	7.0	9.88		20	MID																DNS9
APR 25	10:30	6.5	11.6		89	MID																DNS9
APR 26	09:00		10.3	H	56	MID												348				DNS9
APR 27	16:15	12.0	8.38		74	MID																DNS9
APR 28	09:15	14.0	8.69		49	MID																DNS9
MAY 01	15:30	10.5	5.30		75	MID																DNS9
MAY 02	17:00		4.97	H	57	MID																DNS9
MAY 03	08:45	9.0	4.51		89	MID																DNS9
MAY 04	13:00		4.20	H	85	MID																DNS9
MAY 05	10:15	8.5	3.91		78	MID																DNS9
MAY 06	12:00		3.74	H	88	MID																DNS9
MAY 07	15:45	14.0	3.29		113	MID																DNS9
MAY 08	11:00		3.25	H	101	MID												338				DNS9
MAY 09	14:30	10.5	3.34		101	MID																DNS9
MAY 10	20:20		3.38	H	103	MID																DNS9
MAY 11	17:20	13.0	2.96		114	MID																DNS9
MAY 12	20:30		2.65	H	112	MID																DNS9
MAY 13	08:45	12.0	2.59		110	MID																DNS9
MAY 14	10:30	11.0	10.5	Y	110	MID																DNS9
MAY 15	10:45	9.5	8.00	Y	81	MID																DNS9
MAY 15	15:00		5.80	Y	83	MID												376				DNS9
MAY 17	21:00	12.0	4.31		124	MID																DNS9
MAY 19	09:15	13.0	4.13		110	MID																DNS9
MAY 21	11:15	14.5	3.77		128	MID																DNS9
MAY 22	12:00		3.28	H	118	MID																DNS9
MAY 23	10:40	18.0	3.88		144	MID																DNS9
MAY 24	21:00		7.26	H	132	MID																DNS9
MAY 25	17:10	18.5	8.48		121	MID																DNS9
MAY 26	16:30	15.5	17.1		280	MID																DNS9
MAY 27	10:00	14.0	16.5		105	MID												451				DNS9
MAY 28	13:20	14.0	10.4		82	MID																DNS9
MAY 29	13:30	10.5	15.5		180	MID																DNS9
MAY 30	11:35	9.0	17.0		72	MID																DNS9
MAY 31	10:20	9.5	14.1		79	MID																DNS9
JUN 01	15:10	16.0	11.7		124	MID																DNS9
JUN 02	16:30	17.0	9.17		117	MID												351				DNS9
JUN 03	15:00	18.0	7.58		142	MID																DNS9
JUN 04	11:10	18.0	8.98		142	MID																DNS9
JUN 05	13:20	18.0	8.38		152	MID												341				DNS9
JUN 06	19:30	21.0	7.52		132	MID																DNS9
JUN 07	15:50	22.0	6.95		120	MID																DNS9
JUN 08	16:15	22.0	6.80		136	MID																DNS9
JUN 10	10:10	22.0	8.90		289	MID																DNS9
JUN 11	18:45	22.5	5.23		207	MID												393				DNS9
JUN 12	20:00	23.0	3.82		172	MID																DNS9
JUN 13	20:30	24.0	3.15		123	MID																DNS9
JUN 14	19:30	21.0	2.95		161	MID												396				DNS9
JUN 15	12:00	21.0	3.52	H	149	MID																DNS9
JUN 16	15:00	21.0	3.43		105	MID																DNS9
JUN 17	19:45	19.5	5.57		467	MID																DNS9
JUN 18	09:00	17.0	79.1		536	MID												438				DNS9
JUN 18	15:50	18.0	82.3		188	MID	43	63	80	92	96	97	98	100				432	3	44	53	DNS9
JUN 19	08:20	19.0	84.4		62	MID												438				DNS9
JUN 19	19:00	20.5	41.9		80	MID																DNS9

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

DISCHARGE SYMBOL(S): H - DAILY MEAN W - DAILY MEAN; ICE CONDITIONS Y - DAILY MEAN; ESTIMATED

CONTINUED

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
JUN 20	08:30	20.0	27.5		61	MID												514				DH59
JUN 21	09:20	20.0	16.4		98	MID																DH59
JUN 22	09:00	20.5	10.9		122	MID																DH59
JUN 23	11:00	21.0	7.28		112	MID												463				DH59
JUN 24	11:30	21.0	5.48		94	MID																DH59
JUN 25	14:00		4.78	H	76	MID																DH59
JUN 26	17:50	23.0	3.64		96	MID												323				DH59
JUN 27	12:00		3.28	H	101	MID																DH59
JUN 28	08:45	20.0	3.78		101	MID																DH59
JUN 29	09:00		4.16	H	85	MID																DH59
JUN 30	14:30	22.0	2.83		85	MID																DH59
JUL 01	17:00		2.38	H	82	MID																DH59
JUL 02	08:40	22.0	1.86		91	MID																DH59
JUL 03	17:00		1.50	H	86	MID																DH59
JUL 04	17:00	26.0	1.32		76	MID												326				DH59
JUL 05	12:00		1.28	H	95	MID																DH59
JUL 06	11:50	22.0	1.72		110	MID																DH59
JUL 07	14:00		10.8	H	240	MID																DH59
JUL 08	11:30	17.0	5.42		122	MID												368				DH59
JUL 09	11:00		2.93	H	97	MID																DH59
JUL 10	13:20	21.0	2.02		114	MID																DH59
JUL 11	17:00		2.24	H	115	MID																DH59
JUL 12	08:45	20.5	1.80		110	MID												397				DH59
JUL 14	14:40	24.5	1.28		107	MID																DH59
JUL 16	17:10	25.0	0.980		101	MID												342				DH59
JUL 17	12:00		0.882	H	100	MID																DH59
JUL 18	14:00		1.65	H	95	MID																DH59
JUL 19	19:00	22.0	4.75		129	MID																DH59
JUL 21	10:45	23.0	1.87		118	MID																DH59
JUL 22	17:00		1.70	H	121	MID																DH59
JUL 23	10:50	24.0	1.55		118	MID																DH59
JUL 24	14:00		1.05	H	115	MID																DH59
JUL 25	08:00	23.0	0.893		115	MID												368				DH59
JUL 26	12:00		0.759	H	131	MID																DH59
JUL 27	10:30	21.0	0.708		116	MID																DH59
JUL 28	14:00		0.666	H	87	MID																DH59
JUL 29	19:30	25.0	0.597		85	MID																DH59
JUL 30	14:00		0.552	H	84	MID																DH59
JUL 31	11:50	25.0	0.850		128	MID																DH59
AUG 01	10:45	23.0	0.516		112	MID																DH59
AUG 02	12:00		0.543	H	85	MID																DH59
AUG 04	19:00	26.5	0.539		86	MID																DH59
AUG 07	11:10	25.5	0.471		70	MID																DH59
AUG 10	09:15	25.5	0.471		83	MID																DH59
AUG 11	12:00		0.481	H	78	MID																DH59
AUG 12	17:00		0.512	H	75	MID																DH59
AUG 13	08:50	24.0	0.828		103	MID												361				DH59
AUG 14	14:00		0.631	H	88	MID																DH59
AUG 15	12:00		0.548	H	87	MID																DH59
AUG 16	09:10	24.5	0.478		104	MID																DH59
AUG 17	12:00		0.480	H	88	MID																DH59
AUG 18	12:00		0.437	H	91	MID																DH59
AUG 19	15:30	23.5	0.448		82	MID												412				DH59
AUG 20	14:00		0.980	H	100	MID																DH59
AUG 21	09:00		0.847	H	95	MID																DH59
AUG 22	10:40	21.0	0.501		100	MID												394				DH59
AUG 23	12:00		0.626	H	102	MID																DH59
AUG 24	16:45		0.509	H	91	MID																DH59
AUG 25	17:00	23.0	0.478		72	MID																DH59
AUG 26	17:00		0.489	H	74	MID																DH59
AUG 27	17:00		0.451	H	77	MID																DH59
AUG 28	08:45	21.0	0.419		94	MID																DH59
AUG 29	17:00		0.831	H	128	MID																DH59
AUG 30	14:00		1.06	H	133	MID																DH59
AUG 31	17:00	22.0	1.86		125	MID																DH59
SEP 01	17:00		2.11	H	115	MID																DH59
SEP 02	17:00		2.48	H	123	MID																DH59
SEP 03	17:00	20.0	7.16		243	MID												471				DH59
SEP 04	17:00		5.80	H	144	MID																DH59
SEP 05	08:30		4.56	H	130	MID																DH59
SEP 06	17:00	20.0	3.51		106	MID																DH59
SEP 07	17:00		2.58	H	93	MID																DH59
SEP 08	14:00		1.68	H	89	MID																DH59
SEP 09	17:00	18.5	1.21		81	MID																DH59
SEP 10	17:00		8.19	H	252	MID																DH59
SEP 11	16:45	20.0	17.2		225	MID												432				DH59
SEP 12	12:45	20.0	16.8		148	MID																DH59
SEP 13	17:00	19.5	9.75		75	MID																DH59
SEP 14	10:45	19.0	36.3		380	MID												389				DH59
SEP 14	15:15	19.0	46.3		442	MID	33	53	78	96	97	98	99	100				325	2	45	53	DH59
SEP 15	15:45	18.0	22.6		102	MID												389				DH59
SEP 16	16:30		13.1	H	105	MID																DH59
SEP 17	18:50	17.0	8.57		134	MID																DH59
SEP 18	19:30		8.65	H	135	MID																DH59
SEP 20	08:30	17.0	4.22		135	MID												350				DH59
SEP 22	17:00	20.0	2.15		135	MID																DH59
SEP 24	19:30	22.0	1.38		100	MID																DH59
SEP 25	17:15		1.35	H	90	MID																DH59
SEP 27	17:30	17.0	1.56		85	MID												307				DH59
SEP 28	17:00		1.64	H	84	MID																DH59
SEP 29	17:30		1.61	H	84	MID																DH59
SEP 30	17:00		1.68	H	84	MID																DH59
OCT 01	11:20	13.0	1.42		87	MID																DH59
OCT 05	08:45	13.0	1.14		89	MID												324				DH59
OCT 08	15:30	15.5	0.980		70	MID																DH59
OCT 11	11:00	12.0	0.980		70	MID																DH59
OCT 14	15:30	13.0	0.959		113	MID																DH59
OCT 17	15:10	10.0	0.927		97	MID																DH59
OCT 20	13:30	15.0	0.949		99	MID																DH59
OCT 24	08:45	12.0	1.07		35	MID												439				DH59
OCT 27	15:30	15.0	1.38		71	MID																DH59
NOV 01	08:30	11.5	1.18		46	MID																DH59
NOV 05	15:30	9.5	15.0	Y	104	MID																DH59

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

DISCHARGE SYMBOL(S): H - DAILY MEAN Y - DAILY MEAN; ESTIMATED

CONTINUED

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
NOV 06	15:00	8.0	7.00	Y	30	MID												480				DH59
NOV 11	16:00	10.0	85.0	Y	234	MID												462				DH59
NOV 13	17:00	8.0	35.0	Y	44	MID																DH59
NOV 15	15:45	8.0	9.00	Y	21	MID												482				DH59
NOV 19	15:15	5.0	11.8	Y	15	MID																DH59
NOV 20	13:45	4.0	10.5	Y	13	MID																DH59
NOV 22	15:25	4.0	7.85		57	MID												378				DH59
NOV 25	14:45	5.0	5.47		85	MID																DH59
NOV 28	14:45	8.0	7.73		70	MID												400				DH59
DEC 03	15:45	4.5	6.81		36	MID																DH59
DEC 12	15:00	2.0	10.3		35	MID																DH59
DEC 19	15:30	1.0	11.9		13	MID																DH59
DEC 21	12:05	1.0	8.25		13	MID																DH59
DEC 24	16:30	0.1	21.0		28	MID												383				DIP
DEC 28	15:45	0.1	13.4		44	MID																DH59

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

DISCHARGE SYMBOL(S): Y - DAILY MEAN, ESTIMATED

AUSABLE RIVER NEAR SPRINGBANK - STATION NO 02FF002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1970	JAN-DEC	M-C	888	MAY 15	11	JAN 27	4 520	MAY 15	35 200		96.3	96.3	---
1971	APR-DEC	M-C	236	AUG 27	18	DEC 21	887	APR 02	7 480		---	---	---
1972	JAN-DEC	M-C	827	APR 17	20	FEB 22	7 750	APR 17	41 000		112	104	7.5
1973	JAN-DEC	M-C	955	MAR 11	16	NOV 10	7 670	JAN 01	85 600		180	129	19.9
1974	JAN-DEC	M-C	1 220	APR 04	12	DEC 20	15 200	MAR 05	93 600	*	256	161	22.7
1975	JAN-DEC	M-C	1 480	APR 18	11	JAN 20	18 700	APR 19	75 200		208	170	17.4
1976	JAN-DEC	M-C	804	JUL 10	22	DEC 08	5 220	MAR 08	65 500		179	172	14.1
1977	JAN-DEC	M-C	848	JUN 29	43	MAR 23	8 600	MAR 13	65 500		179	173	11.9
1978	JAN-DEC	M-C	414	APR 11	31	MAR 29	4 180	APR 02	39 400		108	185	11.6
1979	JAN-DEC	M-C	1 550	APR 14	24	DEC 28	33 200	APR 14	92 900	*	255	175	11.4
1980	JAN-DEC	M-C	758	JUN 29	19	FEB 05	5 850	MAR 22	41 500		113	188	11.2
1981	JAN-DEC	M-C	690	SEP 02	11	DEC 30	4 200	SEP 02	41 300		113	163	10.9
1982	JAN-DEC	M-C	1 630	MAR 31	* 8	JAN 20	18 700	MAR 31	65 700		180	185	9.9
1983	JAN-DEC	M-C	712	APR 10	7	JAN 09	* 3 850	MAY 03	29 600		81.2	158	10.3
1984	JAN-DEC	M-C	770	MAR 16	7	JAN 27	4 330	MAR 17	42 900		117	155	9.9

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

BIG CREEK NEAR WALSINGHAM - STATION NO. 02EC007

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 42 41 05 N LONG 80 32 15 W
DRAINAGE AREA: 591 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 24 149.11 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	5.20 B	38	20.8	4.00 B	83	18.3	10.8	71	88.3	1
2	5.80 B	38	19.8	4.07 B	95 S	33.6	10.1	44	38.4	2
3	5.70 B	37	18.2	4.40 B	195	74.5	9.69	28	21.8	3
4	5.40 B	37	17.3	5.00 B	380	187	9.22	23	18.3	4
5	5.20 B	36 S	16.2	5.00 B	201	139	9.83	82 S	44.2	5
6	5.10 B	32	14.1	7.80 B	54	35.5	10.8	93	85.2	6
7	4.80 B	28	12.0	7.00 B	23 S	13.8	10.3	81 S	54.3	7
8	4.70 B	24	9.75	6.50 B	17 S	9.55	9.02	49	38.2	8
9	4.50 B	22	8.55	6.30 B	19 S	10.3	8.70 B	47	35.3	9
10	4.40 B	22	8.38	6.81 B	14 S	8.36	8.40 B	46	33.4	10
11	4.30 B	20	7.43	8.83	28	20.9	8.20 B	43	30.5	11
12	4.17 B	18 S	6.49	14.9	101	130	8.02	41 S	28.4	12
13	4.10 B	27	9.55	21.7	373 S	699	7.80 B	80	41.0	13
14	4.10 B	41 S	14.5	46.0	426 S	1 690	7.75 B	90 S	33.5	14
15	4.08 B	38	13.4	55.5	170 S	820	7.78	49	33.0	15
16	4.05 B	32	11.2	52.9	109 S	498	8.75	92	69.6	16
17	4.03 B	31	10.8	46.1	91 S	382	12.4	152 S	163	17
18	4.01 B	29 S	10.0	36.3	85	267	12.9	88	98.1	18
19	4.00 B	28	10.0	32.1	101	280	12.7	76 S	83.4	19
20	3.99 B	30	10.3	28.0	132 S	331	12.9	82	91.4	20
21	3.98 B	32	11.0	27.4	145	343	15.2 E	189 S	248	21
22	3.98 B	31	10.7	26.2	125 S	283	16.8 E	189	289	22
23	4.00 B	28 S	10.0	22.5	117 S	227	17.1 E	123 S	182	23
24	4.07 B	54	18.0	18.4	108	172	17.3 E	107	180	24
25	4.20 B	124	45.0	17.0	97	142	17.0 E	100	147	25
26	4.80 B	81 S	32.2	18.5	82	118	16.8 E	87 S	139	26
27	4.30 B	47	17.5	15.3	87	88.8	16.8 E	103	150	27
28	4.17 B	37	13.3	14.0	57	68.8	17.4 E	130 S	180	28
29	4.10 B	33	11.7	12.2	57	60.1	18.2 E	138	217	29
30	4.03 B	32 S	11.1				19.2 E	137	227	30
31	4.00 B	34	11.8				19.2 E	126	209	31
TOTAL	138.18		462.24	573.81		7 140.71	388.77		3 288.3	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	18.2 E	130	198	6.52	40 S	29.4	9.13	88	83.6	1
2	18.1 E	121 S	200	6.24	34	24.2	8.54	88 S	64.9	2
3	18.0 E	98	161	7.89	35 S	24.2	8.27	113	80.7	3
4	18.6 E	78 S	128	8.75	82	48.9	7.98	100 S	68.8	4
5	19.3	137 S	228	8.84	50 S	38.6	7.41	78	48.7	5
6	20.9	161	291	8.35	39	28.1	7.08	71 S	43.4	6
7	22.0	172	327	7.97	33	22.7	8.84	70	41.4	7
8	22.9	149	295	8.35	43 S	31.0	8.45	80 S	33.4	8
9	19.6	111	188	9.43	88	47.3	8.17	84	28.8	9
10	18.4	86 S	122	9.22	51	40.8	5.88	82	26.4	10
11	14.2	74	90.8	8.72	38 S	28.4	5.80	80	24.2	11
12	12.7	84	70.2	8.34	27	18.5	5.37	49 S	22.7	12
13	11.7	88	88.8	8.33	83	46.3	5.22	48	30.7	13
14	11.1	70	87.1	11.8	111 S	111	5.83	59 S	28.2	14
15	10.9	128	121	10.8	80	88.0	5.47	48	31.3	15
16	12.7	108 S	118	9.88	47 S	38.9	5.22	44 S	19.8	16
17	13.5	80	93.3	8.83	31	23.7	8.83	220	130	17
18	13.4	88 S	78.4	8.58	38 S	28.8	14.1	387 S	484	18
19	12.7	88	76.7	8.81	58	43.1	15.7	185	281	19
20	13.7	85	101	8.61	49	36.0	15.9	285 S	418	20
21	13.1	83 S	70.2	8.23	36 S	25.8	20.5	203	380	21
22	11.8	81	51.1	7.78	33	22.1	19.0 E	183 S	281	22
23	11.0	84 S	51.3	8.45	104 S	84.9	11.8 E	147	150	23
24	13.0	117	131	13.0	283	295	9.70 E	143	120	24
25	14.5	82 S	103	11.3	120 S	117	8.80 E	143	109	25
26	13.7	87	83.5	10.3	88	58.7	8.16 E	142 S	100	26
27	11.8	84	83.7	9.49	80	41.0	8.17 E	188	133	27
28	10.8	80	45.6	8.51	51	37.5	8.48 E	208	153	28
29	9.89	47	38.3	8.55	77 S	63.5	7.07 E	130 S	78.4	29
30	9.08	45	38.3	8.88	103	87.9	8.48 E	117	85.5	30
31				8.51	88 S	56.7				31
TOTAL	440.57		3 868.3	284.82		1 852.4	288.84		3 488.9	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	5.21 E	118	83.3	2.88	70	17.3	4.18	32	11.5	1
2	5.01 E	111	87.8	3.10	71	19.0	4.27	36 S	13.3	2
3	5.84 E	104 S	52.6	3.86	78 S	26.1	5.23	94	42.5	3
4	5.76 E	99	49.3	3.75	87	21.7	4.72	46 S	18.8	4
5	5.87 E	73 S	35.1	3.83	84	21.2	4.44	34	13.0	5
6	6.41 E	230	127	3.82	88	21.5	4.23	32	11.7	6
7	6.07 E	280 S	195	3.83	80 S	19.9	4.20	36 S	13.1	7
8	5.75 E	113	85.9	3.76	83	27.0	4.11	32	11.4	8
9	5.09 E	95	50.0	8.24	284	137	4.04	26	9.08	9
10	5.86 E	88 S	44.6	5.11	91 S	40.2	5.09	66 S	29.0	10
11	5.86 E	85	48.1	4.53	85	25.4	5.19	117 S	82.8	11
12	5.83 E	86	43.3	4.31	85	24.2	7.87	167 S	108	12
13	5.49 E	89 S	32.7	4.25	77 S	28.3	5.81	71 S	41.6	13
14	5.22 E	57	25.7	4.18	75	27.1	8.08	89 S	89.2	14
15	5.03 E	39	16.9	4.06	80	21.0	7.98	82	63.4	15
16	5.06 E	44	19.2	3.89	86 S	19.5	8.73	83	38.6	16
17	5.87 E	84 S	45.2	3.73	84	17.4	8.19	85	28.4	17
18	5.81 E	124 S	62.2	3.63	86 S	17.6	5.81	44 S	22.1	18
19	5.63 E	109	53.0	3.87	83	27.8	5.48	38	18.5	19
20	5.19 E	49 S	22.0	3.80	81	20.0	5.25	33	15.0	20
21	4.84 E	41	17.1	3.62	33 S	10.3	5.04	33 S	14.4	21
22	4.67 E	38	15.3	3.68	43	13.7	4.88	34	14.3	22
23	4.59 E	36	14.3	3.96	63	21.6	4.78	35	14.5	23
24	4.37 E	35 S	13.2	3.84	41 S	13.6	4.84	33 S	13.8	24
25	3.97 E	37	12.7	3.59	26	8.06	4.97	38 S	16.3	25
26	3.56 E	38	11.8	3.41	20	5.89	8.84	184	106	26
27	3.46 E	36 S	11.4	3.32	26	7.46	8.88	87	86.0	27
28	3.43 E	36	10.7	3.36	35 S	10.2	8.08	84	33.6	28
29	3.28 E	30	8.53	3.80	45 S	14.8	8.83	46	23.2	29
30	3.10 E	27	7.23	4.31	71	26.4	5.58	30	14.5	30
31	3.01 E	42 S	10.9	4.47	89	26.8				31
TOTAL	159.59		1 241.78	121.59		736.81	166.31		845.58	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	5.32	23 S	10.6	3.81	11	3.72	4.50	14	5.44	1
2	5.13	23	10.2	4.24	12 S	4.40	4.45	14	5.38	2
3	5.01	22 S	9.52	4.15	12	4.30	4.87	16 S	6.05	3
4	4.89	20	8.45	4.51	27	10.5	4.80	21	8.71	4
5	4.78	18 S	7.43	6.79	85 S	32.3	4.80	15 S	6.83	5
6	4.78	25	10.3	6.39	29 S	16.0	4.50	13	5.05	6
7	4.84	30	12.0	5.83	32 S	16.4	4.66	15	6.04	7
8	4.83	41	17.1	5.60	26	12.4	4.37	15	5.65	8
9	4.79	18 S	7.86	5.35	25 S	11.6	4.34	14	5.26	9
10	4.68	18	7.28	6.20	65	34.8	4.49	18 S	6.98	10
11	4.80	18 S	7.15	6.33	55	30.6	4.86	27	11.6	11
12	4.55	17	6.86	6.21	36 S	20.4	5.02	24 S	10.4	12
13	4.51	16 S	6.33	5.85	27	13.9	5.87	48	24.0	13
14	4.47	15	5.78	5.62	18	8.55	5.84	33	16.1	14
15	4.43	14	5.36	6.10	25 S	13.2	5.57	25	12.0	15
16	4.38	14 S	5.31	6.79	60	35.2	5.59	25	12.1	16
17	4.36	14	5.27	6.31	30	16.4	5.55	26 S	12.8	17
18	4.39	12	4.55	5.89	21	10.9	5.39	26	12.1	18
19	4.35	10 S	3.78	5.89	18 S	9.34	5.31	25 S	11.5	19
20	4.34	13	4.87	5.54	27	12.9	5.29	22	10.1	20
21	4.27	10	3.69	5.39	20 S	8.97	5.10	16	7.83	21
22	4.28	11 S	4.08	4.98	16	6.88	7.43	177	114	22
23	4.22	12	4.38	4.90	16 S	8.36	8.26	101	72.1	23
24	4.15	13 S	4.68	4.85	15	6.28	7.82	65 S	36.8	24
25	4.12	14	4.98	4.79	15	6.21	7.10 B	62	31.9	25
26	4.19	15 S	5.43	4.73	16	6.72	6.80 B	43	24.0	26
27	4.31	19	7.08	4.86	14 S	5.84	6.40 B	41 S	22.7	27
28	4.21	15	5.46	4.86	14	5.81	7.38	40	25.3	28
29	4.10	13	4.61	4.85	18	7.23	8.27	119	85.3	29
30	4.00	12 S	4.15	4.84	16 S	6.26	13.1	214	242	30
31	3.93	12	4.07				15.0	143 S	181	31
TOTAL	139.01		208.30	161.53		383.89	190.43		1 035.82	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BIG CREEK NEAR WALSINGHAM - STATION NO. 02EC007

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
JAN 05	17:08	1.5	5.14	38	12.0																DNSS
JAN 12	11:00	0.1	3.93	15	12.0																DNSS
JAN 14	11:45	0.1	4.12	41	12.0																SURF
JAN 16	17:25	0.1	4.03	183	12.0																SURF
JAN 23	17:24	0.1	4.04	29	12.0																SURF
JAN 26	17:17	0.1	4.61	53	12.0																SURF
JAN 30	16:39	0.1	4.03	138	12.0																SURF
FEB 02	17:14	0.1	4.38	110	12.0																SURF
FEB 07	17:27	0.1	8.88	20	12.0																DNSS
FEB 08	11:40	0.1	7.18	18	12.0																DNSS
FEB 09	17:20	0.5	9.82	28	12.0																DNSS
FEB 10	11:00	0.5	7.88	13	12.0																DNSS
FEB 13	16:37	3.5	22.6	448	12.0												232				DNSS
FEB 14	16:50	3.0	47.8	388	12.0																DNSS
FEB 15	12:38	2.5	56.8	158	12.0																DNSS
FEB 15	12:40	2.5	56.2	157	12.0																DNSS
FEB 16	10:40	2.0	53.6	109	12.0												182				DNSS
FEB 16	14:00	3.0	53.4	114	12.0																DNSS
FEB 17	11:40	2.5	44.2	81	12.0																DNSS
FEB 20	15:42	3.5	29.1	139	12.0																DNSS
FEB 22	17:21	4.0	26.4	121	12.0												300				DNSS
FEB 23	17:10	5.0	21.4	117	12.0																DNSS
MAR 05	15:38	2.0	9.91	82	12.0																DNSS
MAR 07	12:35	2.0	10.2	58	12.0																DNSS
MAR 12	15:39	0.5	7.58	38	12.0																DNSS
MAR 14	12:19	1.5	8.58	46	12.0																DNSS
MAR 19	15:36		12.3	75	12.0																DNSS
MAR 21	14:00	1.5	15.5	181	12.0																DNSS
MAR 21	15:10	3.0	16.0	226	12.0																DNSS
MAR 23	17:08	2.5	17.8	113	12.0																DNSS
MAR 26	15:45	4.5	16.8	85	12.0																DNSS
MAR 28	17:12	4.5	17.6	123	12.0																DNSS
APR 02	17:14	7.0	20.3	121	12.0																DNSS
APR 04	12:45	6.0	18.8	77	12.0																DNSS
APR 04	17:28	7.5	18.7	85	12.0																DNSS
APR 05	10:58	7.5	18.4	183	12.0																DNSS
APR 10	17:02	8.5	15.8	80	12.0																DNSS
APR 18	17:27	10.0	13.1	85	12.0																DNSS
APR 18	17:44	10.0	13.3	84	12.0																DNSS
APR 21	12:43	10.0	13.2	80	12.0												384				DNSS
APR 23	12:38	8.5	11.0	49	12.0																DNSS
APR 25	17:08	11.5	14.3	88	12.0																DNSS
MAY 01	11:44	11.5	8.48	44	12.0																DNSS
MAY 01	13:10	11.5	8.45	38	12.0																DNSS
MAY 03	15:37	11.0	7.91	32	12.0												366				DNSS
MAY 05	12:28	10.5	8.88	48	12.0																DNSS
MAY 08	08:20	11.0	7.80	47	12.0																DNSS
MAY 08	17:21	11.5	8.84	43	12.0																DNSS
MAY 11	17:01	13.5	8.58	38	12.0																DNSS
MAY 14	16:44	11.0	11.8	88	12.0												326				DNSS
MAY 16	11:41	10.5	8.58	49	12.0																DNSS
MAY 16	17:08	12.5	8.80	37	12.0																DNSS
MAY 21	16:10	17.0	8.18	35	12.0																DNSS
MAY 23	09:00	16.0	8.21	59	12.0																DNSS
MAY 23	17:40	18.0	10.5	121	12.0																DNSS
MAY 25	17:03	18.0	10.8	100	12.0												319				DNSS
MAY 28	17:23	11.5	8.85	85	12.0																DNSS
MAY 31	17:14	13.0	8.45	63	12.0																DNSS
JUN 02	08:22	14.0	8.58	81	12.0																DNSS
JUN 04	17:06	19.0	7.87	95	12.0												306				DNSS
JUN 08	12:27	18.5	7.12	72	12.0																DNSS
JUN 08	17:03	22.0	8.40	84	12.0																DNSS
JUN 12	17:27	21.5	8.35	90	12.0												311				DNSS
JUN 14	17:14	21.0	8.80	88	12.0																DNSS
JUN 16	12:04	17.0	8.20	41	12.0																DNSS
JUN 18	13:15	19.0	14.5	355	12.0												285				DNSS
JUN 18	17:11	18.5	14.9	285	12.0												402				DNSS
JUN 20	17:08	20.0	17.8	286	12.0												424				DNSS
JUN 22	11:33	19.5	20.0	181	12.0																DNSS
JUN 26	17:24	19.5	8.06	141	12.0																DNSS
JUN 28	17:12	20.5	8.85	123	12.0												389				DNSS
JUL 02	17:24	21.0	8.84	103	12.0																DNSS
JUL 05	11:17	19.5	8.61	78	12.0																DNSS
JUL 07	14:53	18.5	7.82	178	12.0																DNSS
JUL 10	11:33	18.0	8.87	87	12.0												322				DNSS
JUL 13	17:07	21.5	8.42	87	12.0																DNSS
JUL 17	12:13	19.0	8.63	84	12.0																DNSS
JUL 18	17:13	19.0	8.06	178	12.0												307				DNSS
JUL 20	17:08	20.5	5.06	44	12.0																DNSS
JUL 24	17:28	23.0	4.28	36	12.0																DNSS
JUL 27	17:13	19.5	3.46	39	12.0																DNSS
JUL 31	11:15	19.0	2.92	26	12.0												313				DNSS
JUL 31	17:26	22.0	2.85	85	12.0												405				DNSS
AUG 03	17:03	21.5	3.71	72	12.0																DNSS
AUG 07	19:45	23.0	3.81	80	12.0																DNSS
AUG 10	17:08	23.5	4.64	71	12.0												449				DNSS
AUG 13	17:04	21.5	4.25	83	12.0																DNSS
AUG 16	11:03	21.5	3.91	87	12.0																DNSS
AUG 16	12:07	19.5	3.62	83	12.0												464				DNSS
AUG 21	17:39	19.5	3.89	30	12.0																DNSS
AUG 24	16:58	19.5	3.61	31	12.0																DNSS
AUG 28	17:38	20.0	3.38	41	12.0																DNSS
AUG 30	17:20	19.5	3.85	44	12.0												386				DNSS
SEP 02	19:08	20.0	4.48	39	12.0																DNSS
SEP 04	17:40	17.5	4.88	37	12.0																DNSS
SEP 07	17:03	18.0	4.13	34	12.0																DNSS
SEP 10	17:10	17.0	8.82	74	12.0																DNSS
SEP 11	17:24	17.0	8.42	93	12.0																DNSS
SEP 12	11:20	18.5	7.98	148	12.0												420				DNSS
SEP 13	11:48	18.0	8.87	88	12.0																DNSS
SEP 14	17:18	18.5	8.71	119	12.0																DNSS
SEP 18	16:58	15.0	8.72	43	12.0																DNSS
SEP 21	17:28	16.5	4.87	34	12.0												387				DNSS

NOTE : SINGLE VERTICAL LOCATED AT 12 METRES

CONTINUED

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
SEP 24	17:08	17.5	4.80	32	12.0																DH59
SEP 26	17:26	17.0	4.88	34	12.0																DH59
OCT 01	17:07	11.5	5.25	22	12.0												368				DH59
OCT 03	17:10	12.5	4.84	22	12.0												361				DH59
OCT 05	17:31	11.5	4.77	15	12.0																DH59
OCT 09	17:20	13.5	4.78	17	12.0																DH59
OCT 11	17:10	15.0	4.85	20	12.0												405				DH59
OCT 13	12:05	11.5	4.80	15	12.0																DH59
OCT 16	17:25	14.5	4.39	14	12.0																DH59
OCT 18	17:08	14.0	4.17	8	12.0																DH59
OCT 22	17:05	12.5	4.30	13	12.0																DH59
OCT 24	12:32	10.5	4.15	13	12.0												387				DH59
OCT 26	17:03	11.5	4.33	14	12.0																DH59
OCT 30	11:08	10.5	3.98	13	12.0																DH59
NOV 02	17:17	8.0	4.32	12	12.0																DH59
NOV 05	17:10	6.5	6.90	41	12.0												374				DH59
NOV 06	13:40	7.0	6.38	30	12.0																DH59
NOV 07	12:35	7.0	5.94	35	12.0												363				DH59
NOV 08	17:10	7.5	5.22	21	12.0																DH59
NOV 12	17:22	5.0	5.88	24	12.0																DH59
NOV 15	17:20	5.5	6.26	25	12.0												390				DH59
NOV 19	16:25	3.5	5.64	17	12.0																DH59
NOV 21	17:10	2.5	5.14	15	12.0																DH59
NOV 23	17:07	3.5	4.96	14	12.0												356				DH59
NOV 27	11:18	5.5	4.67	15	12.0																DH59
NOV 30	17:01	5.0	4.51	14	12.0																DH59
DEC 03	17:08	3.5	4.83	16	12.0												372				DH59
DEC 05	12:33	1.0	4.47	13	12.0																DH59
DEC 10	10:15	1.5	4.37	15	12.0																DH59
DEC 10	17:12	3.0	4.59	18	12.0																DH59
DEC 12	12:24	4.0	5.00	20	12.0												334				DH59
DEC 17	12:41	2.0	5.57	26	12.0												343				DH59
DEC 19	17:08	3.5	5.33	23	12.0																DH59
DEC 24	12:30	3.0	7.59	52	12.0												331				DH59
DEC 27	12:24	0.5	8.03	34	12.0												370				DH59
DEC 31	17:17	3.5	12.7	130	12.0												393				DH59

NOTE : SINGLE VERTICAL LOCATED AT 12 METRES

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1966	JUN-DEC	M-S	315	DEC 06	10	JUL 25	687	DEC 10	6 180		---	---	---
1967	JAN-DEC	M-C	535	JUN 29	29	OCT 11	688	APR 03	24 100		85.9	85.9	---
1968	JAN-DEC	M-C	961	AUG 06	15	NOV 09	1 680	FEB 04	28 300		77.4	71.7	8.0
1969	JAN-DEC	M-C	498	JAN 24	2	OCT 07	2 790	FEB 01	31 900		87.4	76.9	8.1
1970	JAN-DEC	B-C	277	DEC 04	8	JAN 28	340	APR 03	11 700		32.2	65.7	18.3
1971	JAN-DEC	M-C	315	MAR 07	2	OCT 19	885	FEB 28	13 400		36.8	59.8	15.3
1972	JAN-DEC	M-C	484	MAR 01	7	FEB 24	1 520	MAR 02	20 800		56.9	59.4	15.1
1973	JAN-DEC	M-C	452	MAR 05	4	OCT 12	1 180	MAR 14	22 400		61.4	59.7	12.7
1974	JAN-DEC	M-C	482	MAY 12	1	SEP 25 *	1 500	JAN 28	27 900		76.5	61.8	11.1
1975	JAN-DEC	M-C	533	FEB 24	8	JAN 18	855	MAR 22	23 000		60.3	61.6	8.8
1976	JAN-DEC	M-C	404	FEB 18	9	SEP 23	2 760	MAR 06	26 900		76.8	62.4	9.0
1977	JAN-DEC	M-C	1 630	SEP 26	12	JAN 25	3 690	SEP 26 *	33 800		92.6	66.0	8.8
1978	JAN-DEC	M-C	887	MAY 13	15	FEB 27	878	MAR 22	26 600		72.8	66.8	8.0
1979	JAN-DEC	M-C	347	APR 14	11	SEP 29	2 510	MAR 05	30 400		83.3	67.9	7.5
1980	JAN-DEC	M-C	1 890	JUL 22	8	NOV 15	3 040	JUL 22	26 300		71.8	68.2	6.9
1981	JAN-DEC	M-C	784	JUN 23	7	DEC 10	1 180	FEB 18	20 800		56.1	67.4	6.6
1982	JAN-DEC	M-C	1 880	MAY 28 *	3	OCT 29	2 640	MAY 28	42 800 *		117	70.5	7.4
1983	JAN-DEC	M-C	741	FEB 03	2	OCT 31	1 250	FEB 03	33 300		83.8	70.1	7.0
1984	JAN-DEC	M-C	448	FEB 13	8	SEP 19	1 890	FEB 14	24 100		86.0	69.8	6.8

B - BOTH AUTOMATIC AND MANUAL SAMPLING M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC028

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 42 42 30 N LONG 80 50 20 W
DRAINAGE AREA: 876 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 199 359.76 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

JAN				FEB				MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)		DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	5.80 B	81	45.6	5.02 B	51	22.1		9.90 B	105	88.8	1
2	5.50 B	80	42.6	5.00 B	51	22.0		9.20 B	117	93.0	2
3	5.40 B	84	39.2	5.07 B	73	32.0		8.60 B	113	85.9	3
4	5.35 B	79	36.5	7.00 B	218	132		8.60 B	111	82.5	4
5	5.25 B	87 S	30.6	8.80 B	86	83.9		8.80 B	107	81.4	5
6	5.27 B	85	29.6	7.90 B	64	43.7		9.40 B	118	95.8	6
7	5.25 B	85	29.5	7.10 B	48	29.4		8.50 B	118	85.2	7
8	5.23 B	83	28.5	6.82 B	43 S	24.6		8.20 B	113	80.1	8
9	5.20 B	81	27.4	6.30 B	39	21.2		8.00 B	112	77.4	9
10	5.19 B	81	22.8	5.00 B	81 S	31.6		7.80 B	115	78.5	10
11	5.16 B	47	21.0	10.0 B	175	151		7.85 B	119	80.7	11
12	5.13 B	48	21.3	30.0 B	234	807		7.80 B	122	82.2	12
13	5.08 B	42	18.5	85.0 B	349	1 980		7.80 B	115	78.5	13
14	5.07 B	37	16.2	140 B	884 S	10 700		7.85 B	134	82.0	14
15	5.05 B	42	18.3	120 B	638 S	6 810		8.80 B	115	85.4	15
16	5.00 B	42	18.1	100 B	570 S	5 780		21.3	915	1 880	16
17	5.00 B	51	22.0	87.2	1 150 S	5 680		44.2	2 700 S	10 300	17
18	4.98 B	42	18.1	43.6	540	2 030		37.8	838	2 740	18
19	4.88 B	31	13.3	38.4	136	633		26.7	441	1 020	19
20	4.98 B	37	15.9	37.2	140	450		19.8	217	371	20
21	4.88 B	45	19.4	29.0 B	134	335		28.5	1 420 S	3 500	21
22	4.87 B	47	20.2	23.0 B	131	260		40.5	2 900	10 100	22
23	4.98 B	46	19.8	18.8 B	132	226		31.3	941	2 540	23
24	5.05 B	87	28.2	17.0 B	123	181		22.1	299	571	24
25	6.00 B	117	80.7	14.5 B	124	159		21.5	388	721	25
26	5.70 B	83	40.8	13.3 B	120	138		27.4	752 S	1 760	26
27	5.45 B	83	39.7	12.2 B	118	125		30.6	578	1 530	27
28	5.30 B	84	34.7	11.5 B	108	107		28.7	387	883	28
29	5.17 B	48	20.5	10.7 B	103	84.3		27.2	328	771	29
30	5.08 B	43	18.9					25.2	381	851	30
31	5.05 B	48	20.8					24.8	404	888	31
TOTAL	181.85		820.2	858.31		38 859.8		886.30		41 802.4	TOTAL

APR				MAY				JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)		DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	23.6	378	773	7.18	87 S	54.0		8.80	471	358	1
2	21.7	374	701	6.88	73	42.0		7.51	284	184	2
3	18.7	373	635	6.25	95 S	51.6		6.89	261	155	3
4	17.3	380 S	568	6.45	117	65.3		6.83	287	184	4
5	22.2	709 S	1 360	6.84	108	82.0		6.47	274	153	5
6	31 B	1 150	3 170	6.28	92	50.0		5.85	181 S	82.6	6
7	30.6	835	1 880	6.04	88	44.9		5.57	144	89.3	7
8	23.2	371	744	5.46	237 S	132		5.27	181	73.3	8
9	17.2	326	334	7.55	226	147		4.85	153	85.4	9
10	14.2	187	183	7.40	148	84.6		4.85	158	83.9	10
11	11.3	161 S	138	6.82	108	84.2		4.62	151	87.7	11
12	8.38	126	102	5.28	103	58.0		4.26	120	44.2	12
13	8.34	139	93.0	5.92	439 S	282		4.08	92	32.4	13
14	7.88	133	90.8	14.0	484	581		4.15	142	51.0	14
15	7.48	183	118	12.0	187	204		4.21	118	42.9	15
16	10.3	388	345	8.71	117	88.2		4.07	182	57.0	16
17	18.4	528	748	7.80	82 S	55.3		11.7	1 730 S	1 750	17
18	19.5	373	628	7.30	87	54.8		37.3	3 380 S	10 800	18
19	17.6	161 S	274	7.77	138	92.6		52.1	886 S	3 950	19
20	18.2	411	845	7.38	117	74.7		37.9	91	298	20
21	15.8	203	277	6.81	97	57.1		23.4	71	137	21
22	11.7	134	135	6.55	1 230 S	695		13.2	78	88.0	22
23	10.0	188	134	31.0	6 620 S	17 700		8.74	78	59.7	23
24	13.6	1 190	1 400	24.8	2 400	5 180		7.82	402	272	24
25	17.8	1 550 S	2 380	17.3	981	1 470		9.82	1 260	1 070	25
26	13.8	801	722	12.8	451 S	481		8.42	807 S	442	26
27	10.0	228	194	9.96	288	228		6.82	434	244	27
28	7.70	128	85.2	8.48	227	166		5.71	334	184	28
29	6.44	118	65.7	9.08	961	752		5.18	238	107	29
30	7.18	168	116	10.3	3 550 S	3 180		4.73	183	76.8	30
31				9.97	1 230	1 080					31
TOTAL	481.88		15 848.6	288.65		33 207.6		319.84		21 188.8	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	4.38	188	83.3	2.30	81	18.1	4.48	102	39.3	1
2	4.06	135	47.4	2.58	114	25.4	4.52	118	45.3	2
3	3.83	109	36.1	3.18	128	35.2	5.52	245	117	3
4	3.59	105	32.8	3.24	110	30.8	5.01	118 S	51.1	4
5	3.43	121	35.8	3.82	147	46.0	4.78	77	31.7	5
6	4.58	643	254	3.48	111	33.1	4.58	82	24.5	6
7	5.57	656 S	289	3.31	105	30.0	4.34	80 S	22.5	7
8	4.36	241	90.8	3.51	247	74.9	4.28	68	21.3	8
9	3.88	200	67.0	5.88	1 120	855	4.23	74	27.0	9
10	3.52	211	64.2	4.89	467	197	5.96	225	116	10
11	3.62	280 S	85.2	4.19	328	119	9.80	1 040	883	11
12	3.36	253	73.4	3.93	277 S	94.1	11.6	976	895	12
13	3.05	224	59.0	3.83	254	84.1	9.86	785 S	640	13
14	2.75	188	44.7	3.74	238	76.9	15.0	1 930	2 800	14
15	2.67	149	34.4	3.84	308	85.4	13.5	1 060 S	1 220	15
16	2.74	255	60.4	3.81	178	55.8	8.88	478	409	16
17	3.63	432	135	3.81	156	47.3	7.14	249	154	17
18	3.83	272	85.3	3.44	134	39.8	6.20	188	101	18
19	3.05	196	51.8	3.81	182	53.3	5.87	160	78.4	19
20	2.67	148	32.9	3.77	147	47.8	5.43	128 S	80.1	20
21	2.33	121	24.4	3.88	107	34.0	5.23	133	80.1	21
22	2.22	92	17.5	3.66	86	27.8	5.05	189	73.7	22
23	1.91	74	12.3	3.89	73	23.3	4.88	153	86.0	23
24	1.81	63	9.78	3.74	82	20.0	4.83	171	72.8	24
25	1.35	57	8.70	3.86	55	17.4	5.24	491	222	25
26	1.18	72	7.40	3.82	51	16.0	10.3	5 150 S	4 580	26
27	2.20	300	57.0	3.83	46 S	14.4	8.81	370	317	27
28	2.22	150	28.8	3.72	89	22.2	8.80	351	287	28
29	2.03	86	16.8	4.35	141	53.0	7.55	167	109	29
30	2.06	77	13.8	5.20	188	83.1	6.59	96	55.8	30
31	2.34	78 S	16.0	4.84	141	80.2				31
TOTAL	93.84		1 831.68	120.30		2 402.5	211.14		13 389.8	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	6.08	78	41.0	4.87	158	66.9	5.40	81	37.8	1
2	5.68	67	32.9	5.32	264	121	5.35	87	40.2	2
3	5.46	62	24.6	5.30	225	103	5.58	148	71.8	3
4	5.26	44	20.1	5.52	856	630	5.04	177	82.4	4
5	5.14	47	20.8	17.9	1 680	2 800	5.84	97	48.9	5
6	5.06	45	19.7	16.1	678 S	943	5.62	72 S	36.2	6
7	4.81	44	18.7	11.9	318 S	327	5.77	83 S	41.4	7
8	5.16	76	33.8	8.87	244 S	188	5.81	82	48.2	8
9	5.25	57	25.5	7.58	287	175	5.20	76	35.0	9
10	5.16	37	16.5	10.8	478	446	5.20	76	34.1	10
11	5.05	28 S	12.7	13.7	835	740	5.95	134	83.7	11
12	4.86	34	14.8	15.1	880 S	787	8.78	198	118	12
13	4.81	34	14.4	13.8	687	551	8.67	824	618	13
14	4.88	36	15.2	10.8	387	272	10.5	390	354	14
15	4.80	34	14.1	9.20	282	224	9.26	301	181	15
16	4.78	42	17.3	10.5	357	324	7.86	153	105	16
17	4.78	58	24.0	10.1	313	273	7.35	137	78.6	17
18	4.88	69	27.4	8.99	248	181	6.86	102	61.5	18
19	4.81	70	29.1	7.74	200	134	6.56	88	48.9	19
20	4.91	73	31.0	7.01	175	105	6.24	78	40.4	20
21	4.89	182	69.8	6.44	157	87.4	8.08	180	94.7	21
22	6.37	331 S	184	6.08	132	69.5	18.6	1 240	2 120	22
23	6.21	233	100	5.90	108	55.1	25.2	1 480	3 240	23
24	5.08	170	74.8	5.77	87	48.4	18.8	488	808	24
25	4.99	140	60.4	5.65	67	42.5	12.8	224	250	25
26	5.13	148	64.7	5.58	74	35.5	8.50 B	192	141	26
27	5.17	148	64.8	5.40	71	33.1	8.00 B	288	199	27
28	5.08	122	53.7	5.43	108	50.7	8.80 B	278	231	28
29	5.03	108	47.4	5.51	107	50.8	24.1	1 080	2 270	29
30	5.00	116	50.1	5.48	89	42.1	44.7	1 480	5 730	30
31	4.88	128	54.4				38.4	449	1 410	31
TOTAL	157.93		1 248.1	361.32		9 886.1	367.18		18 614.8	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

BIG OTTER CREEK NEAR CALTON - STATION NO. 02EC026

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)		SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 05	12:30	0.1	5.30	89		34.0																DH59
FEB 06	10:15	0.1	5.83	44		34.0																DH59
FEB 10	10:15	0.1	6.00	41		34.0																DH59
FEB 14	13:30	0.1	181	804		34.0	30	44	63	78	83	88	94	99	100			137	12	44	44	DH59
FEB 14	18:30	0.1	182	801		34.0	18	41	57	72	76	83	90	99	100			183	17	42	41	DH59
FEB 15	17:00	0.1	117	430		34.0												128				DH59
FEB 15	12:15	0.1	91.1	595		34.0																DH59
FEB 15	17:10	0.1	78.3	571		34.0																DH59
FEB 17	11:15	0.5	55.5	1210		34.0																DH59
MAR 17	10:00	0.5	74.3	3050		34.0																DH59
MAR 21	11:45	0.5	27.6	1220		34.0																DH59
MAR 28	09:15	0.5	27.0	673		34.0																DH59
APR 04	11:00	5.0	17.3	388		34.0																DH59
APR 05	08:30	8.0	11.0	532	C	34.0																DH59
APR 11	17:30	12.0	21.3	142		34.0												319				DH59
APR 18	15:30	5.0	16.0	141		34.0																DH59
APR 25	17:00	16.0	20.8	1210	C	34.0																DH59
MAY 01	11:15	11.0	10.9	78		34.0																DH59
MAY 03	08:10	5.0	8.39	86		34.0																DH59
MAY 08	09:05	12.0	8.22	187		34.0																DH59
MAY 15	11:00	8.0	6.50	395		34.0																DH59
MAY 17	15:30	8.0	7.48	74		34.0																DH59
MAY 22	08:45	17.0	6.48	80		34.0																DH59
MAY 23	15:50	12.0	32.7	4810		34.0	13	20	33	52	66	77	87	95	99	100		327	23	57	20	DH59
MAY 26	20:00	15.0	11.4	386		34.0												276				DH59
MAY 30	15:30	21.0	6.69	3210		34.0	2	3	5	10	23	50	92	98	100			417	40	57	3	DH59
JUN 06	10:00	24.5	5.72	180		34.0																DH59
JUN 17	17:00	24.0	16.5	2250		34.0	9	10	18	29	50	88	90	97	99	100		404	32	58	10	DH59
JUN 18	11:45	24.0	33.9	2400		34.0	5	8	15	23	40	67	90	96	100			388	33	59	8	DH59
JUN 18	15:30	25.0	40.5	3340		34.0	12	17	25	39	59	85	98	100				424	15	68	17	DH59
JUN 19	15:30	28.0	44.2	191		34.0												430				DH59
JUN 26	15:00	21.0	9.29	507		34.0																DH59
JUL 07	10:30	27.0	3.85	617		34.0												358				DH59
JUL 11	15:30	28.0	3.36	300		34.0																DH59
JUL 31	09:20	18.0	2.30	84		34.0												319				DH59
AUG 12	14:30	30.0	3.83	275		34.0												416				DH59
AUG 27	18:00	23.0	3.58	48		34.0																DH59
SEP 04	11:10	22.0	5.00	118		34.0												450				DH59
SEP 07	10:00	15.0	4.38	97		34.0																DH59
SEP 13	10:00	18.0	8.90	888		34.0												461				DH59
SEP 15	10:00	14.0	14.0	1100		34.0												334				DH59
SEP 20	11:00	14.0	5.44	140		34.0																DH59
SEP 25	13:00	18.0	12.3	8170		34.0	8	11	15	18	25	41	85	98	100			328	58	30	11	DH59
SEP 26	18:30	17.0	9.82	1580		34.0	18	28	38	55	73	90	99	99	100			337	10	64	26	DH59
OCT 11	18:30	15.0	5.75	28		34.0												384				DH59
OCT 22	14:30	17.0	4.80	356		34.0																DH59
NOV 06	11:30	7.0	15.5	890		34.0												414				DH59
NOV 07	11:45	7.0	11.8	298		34.0																DH59
NOV 08	13:10	4.0	12.2	242		34.0												482				DH59
NOV 12	15:00	0.1	15.1	588		34.0												332				DH59
DEC 06	14:20	0.5	5.84	71		34.0																DH59
DEC 07	13:30	2.0	5.24	81		34.0																DH59

NOTE : SINGLE VERTICAL LOCATED AT 34.0 METRES

CONCENTRATION SYMBOL(S): C - COARSE MATERIAL PRESENT

BIG OTTER CREEK NEAR CALTON - STATION NO. 02EC026

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	AUG-DEC	M-S	845	AUG 25	82	OCT 08	3 470	DEC 18	35 500		---	---	---
1976	JAN-DEC	M-C	1 680	MAR 05	11	OCT 12 *	9 610	MAR 05	129 000		354	354	---
1977	JAN-DEC	M-C	2 520	SEP 26	23	FEB 22	14 200	SEP 27	177 000		484	419	16.5
1978	JAN-DEC	M-C	2 600	SEP 15	38	NOV 10	8 340	MAR 23	108 000		297	378	14.8
1979	JAN-DEC	M-C	3 300	APR 14	84	SEP 27	34 100	APR 15 *	187 000		513	412	12.5
1980	JAN-DEC	M-C	2 850	SEP 14	48	NOV 20	19 400	MAR 22	185 000		532	436	10.7
1981	JAN-DEC	M-C	1 330	OCT 01	37	FEB 10	8 110	FEB 24	114 000		313	416	10.4
1982	JAN-DEC	M-C	3 410	MAY 20	18	OCT 05	12 800	APR 01	258 000 *		707	457	12.1
1983	JAN-DEC	M-C	5 130	AUG 12	32	MAY 17	30 800	AUG 12	237 000		648	481	11.1
1984	JAN-DEC	M-C	8 170	SEP 25 *	28	OCT 11	17 700	MAY 23	188 000		648	488	9.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

BIG OTTER CREEK NEAR VIENNA - STATION NO. 02EC004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1966	MAY-DEC	M-S	985	JUN 10	6	SEP 26	5 290	DEC 08	28 000	---	---	---
1967	JAN-DEC	M-C	1 940	APR 03	20	OCT 26	7 780	APR 03	75 700	207	207	---
1968	JAN-DEC	M-C	6 590	JUN 26 *	13	OCT 27	18 700	JUN 26 *	107 000	282	250	17.0
1969	JAN-DEC	M-C	1 630	APR 18	7	NOV 16	14 200	JAN 31	130 000	357	285	15.2
1970	JAN-DEC	M-C	1 920	APR 02	10	MAR 08	8 250	APR 03	41 100	113	242	21.8
1971	JAN-DEC	M-C	1 280	MAR 16	5	NOV 11 *	8 840	FEB 26	54 300	149	224	20.1
1972	JAN-DEC	M-C	2 500	APR 17	12	OCT 20	11 200	MAR 22	128 000	345	244	17.2
1973	JAN-DEC	M-C	1 940	MAR 12	20	SEP 17	11 900	MAR 12	150 000 *	410	288	15.8
1974	JAN-DEC	M-C	2 770	MAR 05	11	OCT 23	14 300	MAR 05	143 000	393	283	14.2
1975	JAN-DEC	M-C	1 980	FEB 24	20	JAN 20	8 770	FEB 24	127 000	348	290	12.6

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

BROUGHAM CREEK AT BROUGHAM - STATION NO. 02HC044

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-JUN MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-JUN STANDARD ERROR OF MEAN %
1975	JAN-DEC	M-C	169	APR 19	1	MAR 21 *	12.1	FEB 24	31.4	0.18	0.18	---
1976	JAN-JUN	M-S	330	MAR 21 *	1	APR 11	20.7	MAR 21 *	84.8 *	0.36	0.27	33.3

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

CANAGAGIGUE CREEK NEAR ELMIRA - STATION NO. 02GA023

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1967	MAY-DEC	M-S	227	DEC 19	5	MAY 26	884	DEC 22	3 280	---	---	---
1968	JAN-DEC	M-C	285	NOV 29	4	SEP 30	874	FEB 02	5 330	14.6	14.6	---
1969	JAN-DEC	M-C	391	MAR 19	2	JUN 16 *	724	MAR 21	4 760	13.0	13.8	5.8
1970	JAN-DEC	M-C	517	MAY 25	3	JUL 25	588	APR 09	2 920	8.01	11.9	18.7
1971	JAN-DEC	M-C	457	JUN 08	3	MAY 12	221	APR 02	2 630	8.93	10.6	17.8
1972	JAN-DEC	M-C	634	APR 13	2	MAY 18	1 720	APR 13 *	7 180	19.6	12.4	18.8
1973	JAN-DEC	M-C	867	MAR 14 *	3	SEP 10	1 630	MAR 11	8 910 *	24.4	14.4	18.0

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA036

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 40 12 N LONG 80 35 48 W
DRAINAGE AREA: 17.8 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 916.59 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.027 B	3	0.01	0.008 B	3	0	0.150 B	42	0.54	1
2	0.026 B	3	0.01	0.009 B	3	0	0.130 B	42	0.47	2
3	0.030 B	3	0.01	0.011 B	4	0	0.118 B	42	0.43	3
4	0.032 B	3	0.01	0.015 B	4	0.01	0.100 B	44	0.38	4
5	0.028 B	3	0	0.018 B	4	0.01	0.088 B	43	0.33	5
6	0.026 B	3	0	0.018 B	4	0.01	0.078 B	41	0.28	6
7	0.025 B	3	0.01	0.018 B	3	0	0.070 B	42	0.25	7
8	0.023 B	3	0.01	0.015 B	3	0	0.063 B	41	0.22	8
9	0.022 B	3 S	0.01	0.014 B	3	0	0.054 B	41	0.19	9
10	0.020 B	3	0.01	0.014 B	4	0	0.048 B	38	0.18	10
11	0.018 B	3	0	0.023 B	4	0.01	0.043 B	38	0.13	11
12	0.018 B	3	0	0.100 B	10	0.08	0.038	35	0.11	12
13	0.018 B	3	0	0.368 B	37	1.16	0.037	32 S	0.10	13
14	0.017 B	4	0.01	5.31 B	85 S	38.0	0.032	30	0.08	14
15	0.016 B	3	0	4.40 B	37 S	14.1	0.034	32	0.09	15
16	0.015 B	3	0	3.70 B	25	7.99	2.57	85	18.9	16
17	0.015 B	3	0	3.30 B	62	14.6	6.82	222	131	17
18	0.014 B	4	0	2.80 B	75 S	18.8	5.52	84	40.1	18
19	0.013 B	3	0	2.60 B	81	18.2	3.70	79	25.3	19
20	0.013 B	4	0	2.54 B	86 S	12.7	3.28	75	21.1	20
21	0.012 B	3	0	0.857 B	24	1.86	9.55	186 S	137	21
22	0.012 B	3	0	0.885 B	24	1.77	5.26	79	35.0	22
23	0.011 B	3	0	1.52 B	51 S	4.70	2.33	41	8.25	23
24	0.011 B	4	0	1.33 B	57 S	6.65	1.79	42	6.50	24
25	0.013 B	4	0	0.577 B	43	2.14	2.26	85 S	16.6	25
26	0.011 B	3	0	0.400 B	40	1.38	2.88	83 S	13.2	26
27	0.010 B	3	0	0.300 B	38	1.01	1.88	32	5.14	27
28	0.010 B	3	0	0.202 B	40	0.70	1.86	42	5.88	28
29	0.010 B	4	0	0.170 B	42	0.62	0.748	22	1.42	29
30	0.009 B	3	0				0.648	25	1.46	30
31	0.009 B	3	0				0.828	29 S	2.07	31
TOTAL	0.538		0.09	31.692		148.75	52.884		473.46	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.847	31	2.27	0.032	7	0.02	0.147	27 S	0.34	1
2	0.731	28	1.77	0.026	6	0.01	0.098	17	0.14	2
3	0.636	24 S	1.32	0.023	7	0.01	0.087	15	0.11	3
4	0.580	26	1.30	0.023	7	0.01	0.084	14	0.08	4
5	1.36	51	5.89	0.021	7	0.01	0.042	13 S	0.05	5
6	0.841	24	1.74	0.017	7	0.01	0.034	11	0.03	6
7	0.613	18 S	0.85	0.018	6	0.01	0.028	10	0.02	7
8	0.376	12	0.39	0.023	13	0.03	0.021	10	0.02	8
9	0.323	13 S	0.36	0.026	15	0.03	0.014	10	0.01	9
10	0.275	28	0.67	0.021	12	0.02	0.010	10	0.01	10
11	0.237	18 S	0.37	0.018	11	0.02	0.005	9	0	11
12	0.201	10	0.17	0.018	11	0.02	0.004	7	0	12
13	0.195	7	0.13	0.017	13	0.02	0.002	7	0	13
14	0.185	8	0.11	0.033	20 S	0.04	0.001	7	0	14
15	0.197	8	0.14	0.016	7	0.01	0.001	7	0	15
16	0.201	8 S	0.10	0.016	6	0.01	0.001	7	0	16
17	0.222	12	0.23	0.018	7	0.01	0.078	38	0.25	17
18	0.234	14	0.28	0.017	7	0.01	1.25	108 S	11.7	18
19	0.201	11	0.19	0.018	7	0.01	0.320	20	0.55	19
20	0.162	10	0.14	0.013	7	0.01	0.132	8	0.09	20
21	0.131	8	0.10	0.011	7	0.01	0.067	7	0.04	21
22	0.103	8	0.08	0.017	11	0.02	0.038	8	0.03	22
23	0.108	8	0.08	0.152	28	0.37	0.026	8	0.01	23
24	0.084	8	0.06	0.109	8	0.08	0.018	8	0.01	24
25	0.075	8	0.05	0.070	8	0.05	0.013	8	0.01	25
26	0.082	7	0.04	0.129	14	0.15	0.008	8	0	26
27	0.083	7	0.03	0.104	11	0.10	0.019	10	0.02	27
28	0.064	8	0.02	0.077	13	0.09	0.021	7	0.01	28
29	0.035	8	0.02	0.603	44 S	1.81	0.016	8 S	0.01	29
30	0.041	8	0.03	0.328	14 S	0.40	0.013	8	0.01	30
31				0.214	13	0.24				31
TOTAL	8.241		10.83	2.111		3.73	2.586		13.88	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA036

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.010	5	0	0	0	0	0.001	2	0	1
2	0.008	6	0	0	0	0	0.001	2	0	2
3	0.004	6	0	0.001	0	0	0.001	2	0	3
4	0.003	6	0	0	0	0	0.001	2	0	4
5	0.002	6	0	0	0	0	0.001	3	0	5
6	0.007	9	0.01	0.001	0	0	0.001	3	0	6
7	0.018	35	0.05	0	0	0	0.001	3	0	7
8	0.014	35 S	0.04	0	0	0	0.001	3	0	8
9	0.012	18	0.02	0.001	0	0	0.001	3	0	9
10	0.038	26	0.09	0	0	0	0.005	5	0	10
11	0.078	50	0.34	0	0	0	0.015	5	0.01	11
12	0.062	46	0.33	0	0	0	0.011	4	0	12
13	0.049	43 S	0.18	0	0	0	0.015	5	0.01	13
14	0.037	36	0.12	0	0	0	0.032	8	0.02	14
15	0.037	38	0.12	0	0	0	0.012	4	0	15
16	0.037	35	0.11	0.001	0	0	0.008	3	0	16
17	0.031	33	0.09	0.001	0	0	0.005	2	0	17
18	0.025	30	0.06	0.001	0	0	0.005	2	0	18
19	0.024	29	0.06	0.001	0	0	0.005	3	0	19
20	0.024	25	0.05	0	0	0	0.006	3	0	20
21	0.015	20 S	0.03	0	0	0	0.007	3	0	21
22	0.013	12	0.01	0	0	0	0.005	3	0	22
23	0.007	8	0	0.001	5	0	0.004	3	0	23
24	0.004	4	0	0.001	5	0	0.004	2	0	24
25	0.002	2	0	0.001	5	0	0.003	5	0	25
26	0.001	1	0	0	0	0	0.018	6	0.01	26
27	0	0	0	0	0	0	0.018	6	0.01	27
28	0	0	0	0	0	0	0.011	3	0	28
29	0	0	0	0.003	2	0	0.008	2	0	29
30	0	0	0	0.009	5	0	0.008	2	0	30
31	0	0	0	0.004	2	0				31
TOTAL	0.581		1.71	0.026		0	0.219		0.06	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.006	2	0	0.005	2	0	0.070	5	0.03	1
2	0.005	2	0	0.012	2	0	0.083	2	0.01	2
3	0.006	2	0	0.016	2	0	0.070 B	2	0.01	3
4	0.004	2	0	0.050	8	0.04	0.080 B	2	0.01	4
5	0.007	1	0	0.192	40 S	0.66	0.055	2	0.01	5
6	0.006	1	0	0.091	13	0.10	0.055	3	0.01	6
7	0.001	1	0	0.050	10	0.04	0.044	2	0.01	7
8	0.003	2	0	0.038	8	0.03	0.040	3	0.01	8
9	0.005	1	0	0.039	10	0.03	0.037	3	0.01	9
10	0.004	2	0	0.305	75 S	1.98	0.042	2	0.01	10
11	0.004	2	0	1.76	126	19.2	0.041	3	0.01	11
12	0.004	2	0	0.628	39	2.12	0.484	38 S	1.52	12
13	0.003	2	0	0.324	18 S	0.50	2.36	89 S	18.1	13
14	0.002	2	0	0.235	11	0.22	0.845	19	1.06	14
15	0.002	2	0	0.264	14	0.32	0.370	12	0.36	15
16	0.002	2	0	0.345	17	0.51	0.419	11	0.40	16
17	0.002	2	0	0.239	11	0.23	0.583	11	0.54	17
18	0.003	2	0	0.185	8	0.13	0.384	4	0.13	18
19	0.003	2	0	0.145	6	0.08	0.291	2	0.05	19
20	0.004	2	0	0.103	4	0.04	0.225	3 S	0.06	20
21	0.007	2	0	0.073	4	0.03	0.210	5	0.09	21
22	0.008	3	0	0.081	4	0.03	0.808	26	1.95	22
23	0.006	3	0	0.088	3	0.02	0.458 B	9	0.35	23
24	0.005	2	0	0.052	3	0.01	0.300	4	0.10	24
25	0.004	2	0	0.044	2	0.01	0.220	5	0.10	25
26	0.004	3	0	0.044	1	0	0.178	4	0.06	26
27	0.005	3	0	0.043	2	0.01	0.149	2	0.03	27
28	0.008	2	0	0.058	5	0.03	1.39	154 S	18.5	28
29	0.008	2	0	0.083	9	0.06	5.14	273 S	188	29
30	0.008	2	0	0.078	7	0.05	1.66	118	16.9	30
31	0.004	2	0				0.859	49	2.49	31
TOTAL	0.139		0	5.833		26.47	17.395		326.94	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA038

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 05	12:42	0.1	0.020	B	3	MID																DH48
FEB 14	09:20	1.0	5.13	B	106	MID												249				DH48
FEB 14	12:20	1.0	5.35	B	111	MID																DH48
FEB 15	10:00	1.0	4.93	B	35	MID																DH48
FEB 18	13:30	0.4	2.79	B	69	MID																DH48
FEB 20	08:25	0.3	2.47	B	84	MID																DH48
FEB 23	09:20	0.5	0.704	B	29	MID																DH48
FEB 24	14:30	0.6	1.00	B	53	MID												383				DH48
MAR 13	11:45	0.2	0.048		33	MID																DH48
MAR 21	10:00	0.5	10.8		181	MID																DH48
MAR 26	18:30	0.5	4.22		144	MID																DH48
MAR 27	14:00	0.4	1.32		113	MID																DH48
MAR 31	11:00	0.4	0.473		30	MID																DH48
APR 03	15:00	0.4	0.720		26	MID												383				DH48
APR 07	10:00	0.5	0.473		16	MID																DH48
APR 09	14:00	0.5	0.305		12	MID																DH48
APR 10	14:00	0.4	0.098		35	MID																DH48
APR 11	10:00	0.4	0.230		19	MID																DH48
APR 16	13:22	7.5	0.184		8	MID																DH48
MAY 14	14:00	11.6	0.022		19	MID												340				DH48
MAY 25	18:30	12.0	0.605		14	MID																DH48
MAY 30	11:35	9.0	0.313		16	MID																DH48
JUN 01	13:30		0.148		33	MID																DH48
JUN 05	17:45		0.036		13	MID																DH48
JUN 18	07:30		1.84		144	MID												599				DH48
JUN 28	09:15		0.014		8	MID																DH48
JUL 06	08:00		0.017		41	MID																DH48
JUL 13	16:30		0.041		42	MID												299				DH48
JUL 21	06:30		0.014		18	MID																DH48
NOV 05	13:30		0.210		41	MID																DH48
NOV 10	15:00		0.355		79	MID												504				DH48
NOV 13	13:23	5.0	0.300		16	MID																DH48
DEC 12	10:30	3.0	0.077		11	MID												414				DH48
DEC 13	08:30	3.0	2.88		101	MID												369				DH48
DEC 20	15:35	0.8	0.214		2	MID																DH48
DEC 28	15:30	0.5	1.78		145	MID												298				DH48
DEC 29	14:15	0.5	5.08		480	MID												238				DH48

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA038

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1974	JAN-DEC	M-C	850	APR 02	5	MAR 27	534	MAY 17	2 180	5.98	5.98	---
1975	JAN-DEC	M-C	845	APR 18	1	JAN 20	526	APR 19	1 530	4.20	5.09	17.5
1976	JAN-DEC	M-C	581	MAR 27	8	AUG 09	232	MAR 25	1 010	2.77	4.32	21.5
1977	JAN-DEC	M-C	499	MAR 13	0	MAY 30 *	383	MAR 13	1 130	3.11	4.02	18.0
1978	JAN-DEC	M-C	696	APR 11	0	JUL 04	516	APR 11	1 080	2.92	3.80	15.8
1979	JAN-DEC	M-C	1 210	APR 14	3	NOV 28	941	APR 14 *	1 890	4.84	3.94	13.0
1980	JAN-DEC	M-C	1 030	MAR 21	0	JUL 09	830	MAR 21	2 020	5.53	4.18	11.7
1981	JAN-DEC	M-C	581	FEB 23	1	DEC 11	213	FEB 23	707	1.94	3.89	13.0
1982	JAN-DEC	M-C	1 710	APR 17 *	5	MAY 14	640	APR 17	2 330 *	6.38	4.18	12.8
1983	JAN-DEC	M-C	594	MAY 02	0	JUN 30	189	MAY 02	520	1.43	3.89	14.0
1984	JAN-DEC	M-C	480	DEC 29	2	DEC 20	188	DEC 29	916	2.80	3.78	13.5

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

CAT RIVER BELOW WESLEYAN LAKE - STATION NO. 04SA002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	JUN-SEP #	M-MS	1 JUN 01 *	1 JUN 01 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

\# - PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 03	08:30	0.1		32	MID																DH48
JAN 05	08:15	0.1		19	MID																DH48
JAN 06	08:15	0.1		12	MID																DH48
JAN 09	08:30	0.1		6	MID																DH48
JAN 11	08:30	0.1		1	MID												452				DH48
JAN 13	08:30	0.1		1	MID																DH48
JAN 16	08:20	0.1		0	MID																DH48
JAN 18	08:30	0.1		3	MID																DH48
JAN 20	08:30	0.1		3	MID																DH48
JAN 20	12:55	0.1	4.20	0	MID																DH48
JAN 23	08:30	0.1		43	MID																DH48
JAN 25	08:30	0.1		30	MID												286				DH48
JAN 27	08:15	0.1		44	MID																DH48
JAN 30	08:15	0.1		26	MID																DH48
FEB 01	08:15	0.1		18	MID																DH48
FEB 03	08:30	0.1		32	MID																DH48
FEB 06	08:30	0.1		7	MID																DH48
FEB 08	08:30	0.1		2	MID												553				DH48
FEB 13	08:30	0.1		36	MID																DH48
FEB 14	08:30	0.1		516	MID	12	23	40	62	82	97	99	100								DH48
FEB 14	13:00	0.1		627	MID	14	19	31	49	72	87	95	99	100			188	3	74	23	DH59
FEB 16	08:30	0.1		36	MID												169	13	68	19	DH59
FEB 17	08:50	0.1		87	MID																DH48
FEB 20	08:15	0.1		296	MID																DH48
FEB 22	08:30	0.1		54	MID																DH48
FEB 24	08:15	0.1		107	MID																DH48
FEB 24	14:15	0.4		65	MID																DH48
FEB 27	08:30	0.1		20	MID																DH48
MAR 02	08:30	0.1		22	MID												358				DH48
MAR 05	08:30	0.1		19	MID																DH48
MAR 07	08:20	0.1		29	MID																DH48
MAR 09	08:30	0.1		28	MID												440				DH48
MAR 12	08:30	0.1		16	MID																DH48
MAR 14	08:30	0.1		30	MID																DH48
MAR 16	08:30	0.1		60	MID																DH48
MAR 19	08:15	0.1		35	MID																DH48
MAR 21	08:30	0.1		149	MID																DH48
MAR 23	08:30	0.1	28.7	95	MID												388				DH48
MAR 26	08:30	0.1		92	MID																DH48
MAR 28	08:15	0.1		94	MID																DH48
MAR 29	14:00	0.2		46	MID																DH48
MAR 30	08:30		31.5	36	MID																DH48
APR 02	08:30			48	MID												343				DH48
APR 04	08:20			34	MID																DH48
APR 05	18:35		63.4	745	MID	18	27	45	58	81	90	96	99	100							DH48
APR 06	08:30			246	MID												311	10	63	27	DH48
APR 06	18:40		50.8	173	MID																DH48
APR 07	09:25		38.5	82	MID																DH48
APR 09	08:30			28	MID												315				DH48
APR 13	14:30			12	MID																DH48
APR 16	08:30			29	MID																DH48
APR 18	08:30			47	MID																DH48
APR 19	08:30			34	MID												334				DH48
APR 25	09:30		12.7	38	MID																DH48
APR 30	07:30			64	MID																DH48
MAY 02	07:30			21	MID																DH48
MAY 04	07:30			74	MID												321				DH48
MAY 07	07:30			26	MID												379				DH48
MAY 09	07:45			33	MID																DH48
MAY 11	07:30			23	MID																DH48
MAY 14	07:30			21	MID																DH48
MAY 15	08:00			29	MID																DH48
MAY 16	07:15			29	MID																DH48
MAY 18	07:30			34	MID												287				DH48
MAY 22	07:30			21	MID																DH48
MAY 23	07:30			71	MID																DH48
MAY 25	07:30			36	MID												341				DH48
MAY 28	07:30			28	MID																DH48
MAY 30	07:30			57	MID																DH48
MAY 31	11:00			53	MID																DH48
JUN 01	07:30			44	MID																DH48
JUN 04	07:30			51	MID												367				DH48
JUN 06	07:30			50	MID																DH48
JUN 08	07:30			75	MID																DH48
JUN 18	07:30			200	MID												376				DH48
JUN 20	07:30			54	MID												409				DH48
JUN 22	07:30			43	MID																DH48
JUN 25	07:30			20	MID												406				DH48
JUN 27	07:30			50	MID																DH48
JUN 29	07:30			85	MID																DH48
JUL 05	07:00			14	MID												389				DH48
JUL 06	07:30			56	MID																DH48
JUL 10	07:30			19	MID												453				DH48
JUL 11	07:30			33	MID																DH48
JUL 13	07:30			23	MID												410				DH48
JUL 16	07:30			12	MID												393				DH48
JUL 17	10:30		3.73	6	MID																DH48
JUL 18	10:30			40	MID																DH48
JUL 20	10:30			68	MID																DH48
AUG 07	07:30			22	MID												395				DH48
AUG 08	07:30			23	MID																DH48
AUG 10	07:30			17	MID																DH48
AUG 13	07:30			13	MID												426				DH48
AUG 17	07:30			8	MID																DH48
AUG 20	07:30		4.01	22	MID												415				DH48
AUG 22	07:30	18.0		11	MID																DH48
AUG 24	07:30	15.0		18	MID																DH48
AUG 27	07:30	17.0		7	MID												485				DH48
AUG 29	07:30	19.0		36	MID																DH48
AUG 31	07:30	18.0		32	MID																DH48
SEP 10	07:30	17.0		127	MID												483				DH48
SEP 12	07:30	15.0		60	MID												359				DH48
SEP 12	13:40	15.0		31	MID																DH48

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

CONTINUED

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE VERTICAL SAMPLING (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
SEP 17	07:30	12.0		38	MID																DH48
SEP 19	07:30	13.0		13	MID												368				DH48
SEP 21	07:30	14.0		4	MID																DH48
SEP 24	07:30	17.0		34	MID																DH48
SEP 26	07:30	12.0		32	MID												383				DH48
SEP 28	07:30	10.0		15	MID												410				DH48
OCT 01	07:30	10.0		3	MID																DH48
OCT 03	07:30	10.0		3	MID																DH48
OCT 05	07:30	10.0		3	MID																DH48
OCT 10	07:30	8.0		25	MID																DH48
OCT 11	12:10	14.0		33	MID																DH48
OCT 12	07:30	12.0		19	MID												389				DH48
OCT 15	07:30	12.0		6	MID																DH48
OCT 17	07:30	12.0		14	MID																DH48
OCT 19	07:30	11.0		10	MID																DH48
OCT 22	11:00	12.0		6	MID																DH48
OCT 26	07:30	8.0		41	MID												396				DH48
OCT 29	08:30	9.0		23	MID												322				DH48
NOV 02	08:30	6.0		25	MID																DH48
NOV 05	08:30	8.0		145	MID																DH48
NOV 07	08:30	3.0		38	MID												347				DH48
NOV 08	10:30	3.0	5.66	37	MID																DH48
NOV 09	08:30	5.0		48	MID																DH48
NOV 12	08:30	4.0		138	MID																DH48
NOV 14	12:25	4.0		33	MID												372				DH48
NOV 16	08:30	3.0		62	MID																DH48
NOV 19	13:15	2.0		36	MID												343				DH48
NOV 21	09:35	1.0		25	MID																DH48
NOV 23	13:15	1.0		111	MID																DH48
NOV 25	09:30	1.0		45	MID												359				DH48
NOV 28	09:30	4.0		39	MID																DH48
NOV 30	13:00	2.0		29	MID																DH48
DEC 03	09:38	2.0		38	MID												326				DH48
DEC 05	08:30	0.1		49	MID																DH48
DEC 07	10:30	0.1		30	MID																DIP
DEC 10	16:25	0.1		71	MID																DIP
DEC 12	13:05	1.0		44	MID												381				DH48
DEC 15	10:15	1.0		28	MID																DH48
DEC 17	12:08	0.5		37	MID																DH48
DEC 19	13:05	1.0		32	MID												381				DH48
DEC 22	11:27	0.1		303	MID																DH48
																	525				DH48

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1973	AUG-DEC	B-S	260	NOV 15	1	OCT 08	353	OCT 30	3 400		---	---	---
1974	JAN-DEC	B-C	3 030	MAY 17 *	1	SEP 05	88 200	MAY 17 *	133 000	*	383	383	---
1975	JAN-DEC	M-C	1 820	APR 18	1	JAN 05	30 200	APR 19	70 100		192	278	30.6
1976	JAN-DEC	M-C	1 030	MAR 20	3	JUL 18	14 100	MAR 20	53 800		146	234	28.2
1977	JAN-DEC	M-C	893	MAR 13	4	MAY 18	13 700	MAR 13	45 800		125	207	26.1
1978	JAN-DEC	M-C	818	APR 01	3	OCT 02	5 540	APR 01	28 700		78.7	181	27.1
1979	JAN-DEC	M-C	717	DEC 24	1	SEP 22	6 480	DEC 25	46 500		127	172	23.9
1980	JAN-DEC	M-C	1 270	MAR 21	3	OCT 15	6 890	MAR 21	30 900		84.5	159	23.2
1981	JAN-DEC	M-C	824	SEP 04	1	SEP 18	6 370	FEB 18	38 700		106	183	21.3
1982	JAN-DEC	M-C	1 770	MAR 31	1	JAN 11	15 800	MAR 31	50 400		138	181	19.1
1983	JAN-DEC	M-C	329	DEC 12	1	APR 22	1 870	FEB 03	22 100		60.4	142	19.2
1984	JAN-DEC	M-C	745	APR 05	0	JAN 15 *		---	---		---	---	---

B - BOTH AUTOMATIC AND MANUAL SAMPLING M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA035

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 39 04 N LONG 80 34 20 W
DRAINAGE AREA: 27.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 526.17 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	0.144 B	4	0.05	0.070 B	6	0.04	0.185 B	13	0.22	1
2	0.142 B	3	0.04	0.078 B	6	0.04	0.170 B	11	0.18	2
3	0.139 B	4	0.05	0.084 B	7	0.05	0.165 B	10	0.14	3
4	0.143 B	4	0.05	0.100 B	7	0.06	0.142 B	11	0.13	4
5	0.155 B	4	0.05	0.080 B	7	0.05	0.130 B	12	0.13	5
6	0.160 B	6	0.08	0.086 B	7	0.05	0.121 B	12	0.13	6
7	0.148 B	15	0.19	0.085 B	11	0.08	0.115 B	11	0.11	7
8	0.130 B	18	0.20	0.083 B	8	0.06	0.108 B	12	0.11	8
9	0.126 B	17 S	0.18	0.081 B	8	0.05	0.102 B	12	0.11	9
10	0.116 B	17	0.17	0.080 B	8	0.06	0.098 B	13	0.11	10
11	0.111 B	17	0.16	0.090 B	8	0.06	0.090 B	13	0.10	11
12	0.105 B	17	0.15	0.120 B	8	0.08	0.105 B	22	0.20	12
13	0.102 B	16	0.14	0.250 B	78 S	1.84	0.125 B	16	0.17	13
14	0.100 B	16	0.14	3.50 B	212 S	64.1	0.130 B	11	0.17	14
15	0.087 B	16	0.13	3.00 B	70 S	18.1	0.250 B	10	0.22	15
16	0.084 B	15	0.12	1.88	36 S	5.18	0.800 B	166 S	7.17	16
17	0.081 B	15	0.12	1.56	37 S	4.89	0.800 B	32 S	2.21	17
18	0.089 B	14	0.11	2.03	77 S	13 S	1.00 B	16	1.38	18
19	0.087 B	12	0.09	3.25	127	35.7	0.900 B	14	1.09	19
20	0.084 B	12	0.09	2.47	103 S	22.0	0.480 B	12	0.48	20
21	0.082 B	12	0.08	1.14	39	3.84	4.20 B	55 S	20.0	21
22	0.080 B	11	0.08	1.02	36	3.36	1.90	38	6.40	22
23	0.070 B	10	0.08	2.03	116 S	20.3	0.775 B	34	2.28	23
24	0.084 B	8	0.07	1.85	53	7.69	0.695 B	32 S	1.92	24
25	0.080 B	10	0.07	0.982	24	1.99	1.23	37	3.93	25
26	0.078 B	10	0.07	0.703	17	1.03	1.49	38	4.83	26
27	0.078 B	8	0.08	0.550 B	15	0.71	1.46	34	4.29	27
28	0.074 B	8	0.05	0.312	13	0.35	1.42	33	4.05	28
29	0.073 B	7	0.04	0.240 B	13	0.27	0.967	28	2.34	29
30	0.072 B	7	0.04				0.888	42 S	3.14	30
31	0.071 B	8	0.05				1.10	54 S	5.13	31
TOTAL	3.223		3.00	27.724		208.41	21.857		72.65	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.07	39	3.61	0.151	10	0.13	0.184	15 S	0.25	1
2	0.976	28	2.38	0.147	10	0.13	0.160	16	0.22	2
3	0.861	27	2.01	0.143	10	0.12	0.188	20	0.33	3
4	0.822	28	1.86	0.154	10	0.13	0.143	14	0.17	4
5	1.57	40	5.43	0.144	10	0.12	0.125	13	0.14	5
6	1.00	18	1.56	0.142	10	0.12	0.116	11	0.11	6
7	0.727	11 S	0.69	0.133	10	0.11	0.111	11	0.11	7
8	0.681	10	0.60	0.176	11	0.17	0.110	11	0.10	8
9	0.508	10	0.44	0.156	10	0.13	0.103	11 S	0.10	9
10	0.444	10	0.38	0.148	10	0.13	0.093	10	0.08	10
11	0.385	10	0.34	0.131	9	0.10	0.084	9	0.07	11
12	0.384	10	0.34	0.137	8 S	0.09	0.093	10	0.08	12
13	0.384	9	0.28	0.148	8	0.10	0.087	8	0.06	13
14	0.341	9	0.27	0.188	8	0.11	0.088	8	0.08	14
15	0.398	10	0.34	0.140	7	0.08	0.084	7	0.05	15
16	0.337	10 S	0.28	0.132	7	0.08	0.082	8	0.08	16
17	0.378	10	0.33	0.125	7	0.08	0.348	94	2.81	17
18	0.359	10	0.31	0.156	7	0.09	1.44	258 S	32.1	18
19	0.316	10	0.27	0.143	8	0.07	0.360	70	2.18	19
20	0.284	10	0.25	0.126	6	0.07	0.191	33	0.64	20
21	0.247	10	0.21	0.119	8	0.08	0.143	22	0.27	21
22	0.227	10	0.20	0.142	11	0.13	0.120	17	0.18	22
23	0.268	10	0.22	0.388	28 S	0.82	0.112	16	0.15	23
24	0.250	10	0.22	0.174	15	0.23	0.105	13	0.12	24
25	0.241	10	0.21	0.138	9	0.11	0.100	10	0.09	25
26	0.214	10	0.18	0.266	22 S	0.48	0.084	8	0.07	26
27	0.208	10	0.18	0.152	13	0.17	0.151	24	0.31	27
28	0.178	10	0.15	0.186	16	0.23	0.138	17	0.19	28
29	0.170	10	0.15	0.616	59 S	3.14	0.104	8 S	0.08	29
30	0.168	10	0.14	0.341	25 S	0.74	0.101	5	0.04	30
31				0.237	19	0.38				31
TOTAL	14.281		23.71	6.804		8.78	5.388		41.03	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA035

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.084	4	0.03	0.074	6	0.04	0.085	12 S	0.08	1
2	0.088	4	0.03	0.078	6	0.04	0.142	14	0.17	2
3	0.086	4	0.03	0.081	6	0.04	0.136	12	0.14	3
4	0.085	4	0.03	0.079	7 S	0.05	0.105	10	0.09	4
5	0.081	3	0.02	0.078	6	0.04	0.082	9	0.07	5
6	0.180	11 S	0.15	0.077	5	0.03	0.088	9	0.07	6
7	0.144	17 S	0.21	0.081	4	0.03	0.086	9	0.07	7
8	0.108	13	0.12	0.076	4	0.03	0.086	9	0.07	8
9	0.098	11	0.09	0.088	5	0.04	0.093	10	0.08	9
10	0.110	11	0.10	0.078	4	0.03	0.282	14 S	0.34	10
11	0.122	11	0.12	0.074	8 S	0.05	0.234	11	0.22	11
12	0.100	10	0.09	0.073	7	0.04	0.145	8 S	0.10	12
13	0.086	11	0.08	0.076	5	0.03	0.189	8	0.13	13
14	0.085	12 S	0.09	0.119	8	0.08	0.204	9	0.16	14
15	0.087	12	0.09	0.083	3	0.02	0.146	5 S	0.06	15
16	0.120	12	0.12	0.091	3 S	0.02	0.123	4	0.04	16
17	0.100	12	0.10	0.083	3	0.02	0.106	3	0.03	17
18	0.100	11	0.10	0.082	8 S	0.06	0.103	3	0.03	18
19	0.089	11	0.08	0.081	3	0.02	0.095	2	0.02	19
20	0.086	10	0.07	0.081	3	0.02	0.094	2	0.02	20
21	0.086	10	0.07	0.083	4	0.03	0.091	3	0.02	21
22	0.085	10	0.07	0.080	4	0.03	0.087	5 S	0.04	22
23	0.083	10	0.07	0.082	4	0.03	0.086	7	0.05	23
24	0.081	10	0.07	0.081	3	0.02	0.092	7	0.08	24
25	0.078	9	0.06	0.082	3	0.02	0.144	10	0.12	25
26	0.080	9	0.06	0.078	3	0.02	0.148	9	0.12	26
27	0.082	7	0.05	0.078	2	0.01	0.116	8	0.08	27
28	0.078	8 S	0.04	0.077	3	0.02	0.102	7	0.06	28
29	0.077	8	0.04	0.182	12	0.20	0.100	5 S	0.04	29
30	0.078	8	0.04	0.124	14	0.15	0.099	5	0.04	30
31	0.077	8	0.04	0.099	13	0.11				31
TOTAL	3.916		2.36	2.891		1.37	3.700		2.63	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.098	5	0.04	0.100	5	0.04	0.134	4	0.05	1
2	0.094	4	0.03	0.121	7	0.07	0.130	4	0.04	2
3	0.092	4	0.03	0.103	6	0.05	0.147	7	0.09	3
4	0.090	5	0.04	0.294	13	0.33	0.125 B	6	0.06	4
5	0.090	6	0.05	0.315	11	0.30	0.114	6	0.05	5
6	0.092	11 S	0.09	0.169	7	0.10	0.113	6	0.06	6
7	0.092	13	0.10	0.144	7	0.09	0.115 B	10	0.10	7
8	0.100	15	0.13	0.124	6	0.06	0.130 B	9	0.10	8
9	0.118	16	0.16	0.129	9	0.10	0.120	6	0.06	9
10	0.103	16	0.14	0.416	49 S	1.76	0.113	6	0.06	10
11	0.087	13	0.11	1.55	75	10.0	0.117	6	0.06	11
12	0.082	8	0.07	0.629	33	1.79	0.475	81 S	3.32	12
13	0.081	7 S	0.06	0.321	24 S	0.66	2.33	184 S	37.0	13
14	0.088	6	0.05	0.243	7	0.15	0.898	85	3.36	14
15	0.085	6	0.04	0.338	18	0.86	0.375	16 S	0.52	15
16	0.085	8	0.06	0.388	14	0.47	0.471	16	0.65	16
17	0.087	10 S	0.08	0.264	8	0.13	0.608	15	0.78	17
18	0.088	10	0.08	0.219	6	0.09	0.382	13	0.43	18
19	0.094	11	0.09	0.179	4	0.06	0.305	11	0.28	19
20	0.094	5 S	0.04	0.184	4	0.05	0.246	7 S	0.15	20
21	0.122	10	0.11	0.135	3	0.03	0.285 B	12	0.27	21
22	0.114	8	0.08	0.118	3	0.03	1.02 B	23	2.03	22
23	0.103	8	0.08	0.118	5	0.05	0.436 B	6	0.23	23
24	0.094	8	0.08	0.121	6 S	0.06	0.352	6	0.18	24
25	0.095	8	0.06	0.119	7	0.07	0.288	7	0.16	25
26	0.129	7	0.08	0.118	7	0.07	0.315 B	8	0.22	26
27	0.116	7	0.07	0.116	8	0.08	0.381 B	6	0.27	27
28	0.115	8	0.08	0.153	5	0.07	1.15 B	88	8.74	28
29	0.104	8	0.06	0.163	5	0.07	4.62	191 S	76.3	29
30	0.100	6	0.05	0.144	4	0.05	1.38	81	7.27	30
31	0.095	4	0.03				0.821	18 S	0.60	31
TOTAL	3.089		2.14	7.497		17.44	17.982		144.82	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA038

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
JAN 08	11:25	0.1	0.127 B	17	10LB																DH48
FEB 13	18:20	0.1	0.446 B	119	10LB																DIP
FEB 14	07:50	0.1	3.84 B	247	10LB												436				DIP
FEB 14	11:27	0.1	4.04 B	328	10LB																DH48
FEB 14	17:00	0.1	4.77 B	169	10LB																DIP
FEB 15	07:40	0.1	3.15 B	55	10LB																DIP
FEB 15	18:35	0.1	2.38 B	72	10LB																DIP
FEB 16	07:45	0.1	2.03	36	10LB												376				DIP
FEB 17	08:00	0.1	1.38	22	10LB																DIP
FEB 18	20:10	0.2	2.52	82	10LB																DIP
FEB 20	07:50	0.1	2.80	127	10LB																DIP
FEB 20	11:02	0.1	2.32	85	10LB																DH48
FEB 23	20:30	0.3	3.63	185	10LB																DIP
MAR 16	08:50	0.1	0.340 B	38	10LB																DIP
MAR 16	20:15	0.1	1.32 B	295	10LB																DIP
MAR 17	07:50	0.1	1.30 B	17	10LB																DIP
MAR 17	19:25	0.1	0.381 B	17	10LB																DIP
MAR 21	07:50	1.0	4.28 B	28	10LB																DIP
MAR 24	11:40	2.0	0.404 B	33	10LB																DIP
MAR 30	18:05	4.0	1.32	80	10LB												375				DIP
MAR 31	20:10	4.0	1.81	81	10LB																DIP
APR 07	19:40	5.0	0.711	10	10LB												328				DIP
APR 16	11:30	7.0	0.351	10	10LB																DIP
MAY 12	18:15	12.0	0.126	6	10LB																DIP
MAY 23	07:30	14.0	0.524	37	10LB																DIP
MAY 26	19:10	15.0	0.202	18	10LB												374				DIP
MAY 29	07:45	8.0	0.880	85	10LB																DIP
MAY 30	10:05	8.0	0.336	25	10LB												437				DIP
JUN 01	14:00	8.0	0.152	14	10LB												382				DIP
JUN 09	19:00	23.0	0.097	10	10LB																DIP
JUN 16	07:40	23.0	2.84	481	10LB																DIP
JUN 28	12:25		0.107	6	10LB												548				DIP
JUL 05	19:30	18.0	0.125	11	10LB												431				DIP
JUL 07	19:00	15.0	0.118	15	10LB																DIP
JUL 14	20:15	23.0	0.084	12	10LB																DIP
JUL 28	19:00	20.0	0.077	8	10LB																DIP
AUG 04	20:05	22.0	0.078	7	10LB																DIP
AUG 11	19:10	21.0	0.075	15	10LB																DIP
AUG 16	11:35	22.0	0.084	3	10LB																DIP
AUG 18	19:05	18.0	0.083	15	10LB												389				DIP
SEP 01	19:20	18.0	0.083	12	10LB																DIP
SEP 10	14:00	15.0	0.188	9	10LB																DIP
SEP 12	18:20	15.0	0.128	5	10LB												416				DIP
SEP 15	19:58	13.0	0.136	4	10LB																DIP
SEP 22	18:00	17.0	0.089	7	10LB																DIP
SEP 28	18:30	11.0	0.097	5	10LB												414				DIP
OCT 06	18:15	10.0	0.090	13	10LB																DIP
OCT 13	18:25	13.0	0.092	6	10LB																DIP
OCT 17	09:05	13.0	0.088	10	10LB																DIP
OCT 20	18:20	11.0	0.092	4	10LB																DIP
NOV 10	20:10	10.0	0.608	75	10LB												413				DIP
NOV 13	14:33	5.0	0.308	26	10LB																DIP
NOV 24	18:55	3.0	0.126	7	10LB																DIP
DEC 12	10:10	3.0	0.185	6	10LB																DIP
DEC 13	20:00	7.4	2.75	137	10LB																DIP
DEC 15	20:20	3.0	0.388	8	10LB												379				DIP
DEC 20	16:00	0.8	0.238	8	10LB																DIP
DEC 28	08:10	0.7	3.31	185	10LB																DIP
DEC 29	19:50	0.4	5.00	183	10LB												320				DIP
DEC 31	20:00	0.2	0.843	9	10LB												297				DIP
																	401				DIP

NOTE : SINGLE VERTICAL LOCATED AT 10LB

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA038

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1974	JAN-DEC	M-C	386	MAY 17	1	OCT 26	482	MAY 17	1 280		3.62	3.62	---
1975	JAN-DEC	M-C	538	APR 19	4	MAY 20	336	APR 19	1 380		3.79	3.68	3.7
1976	JAN-DEC	M-C	414	MAR 25	3	SEP 09	392	MAR 21	1 450		3.97	3.78	3.6
1977	JAN-DEC	M-C	380	MAR 13	2	MAY 14	444	MAR 13	1 050		2.68	3.54	8.7
1978	JAN-DEC	M-C	572	APR 07	2	MAR 04	368	APR 11	1 380		3.74	3.58	8.3
1979	JAN-DEC	M-C	740	APR 14	1	JUN 08	583	APR 14	1 830		4.67	3.73	8.7
1980	JAN-DEC	M-C	1 280	MAR 21	0	MAR 01 *	892	MAR 21 *	1 820	*	4.88	3.91	8.8
1981	JAN-DEC	M-C	669	FEB 23	2	NOV 07	372	FEB 23	988		2.85	3.78	7.2
1982	JAN-DEC	M-C	807	MAR 31	2	MAY 10	886	MAR 31	1 540		4.21	3.80	8.4
1983	JAN-DEC	M-C	2 080	MAY 02 *	1	OCT 01	721	MAY 02	1 010		2.78	3.70	8.5
1984	JAN-DEC	M-C	481	JUN 16	3	AUG 16	78.2	DEC 29	525		1.44	3.48	8.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

EKWAN RIVER BELOW NORTH WASHAGAMI RIVER - STATION NO. 04EA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	AUG-OCT #	M-MS	4 AUG 05 *	3 OCT 27 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

\# - PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 53 16 N LONG 78 49 16 W
DRAINAGE AREA: 86.5 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: MANUAL

TOTAL SUSPENDED SEDIMENT LOAD 6 906.45 TONNES FOR THE PERIOD JAN 01 TO SEP 30

REMARKS:SEASONAL OPERATION (FRESHET - MAY 31)

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.170 B	138	2.04	0.120 B	23	0.24	0.850 B	37	2.08	1
2	0.180 B	117	1.82	0.220 B	25	0.48	0.710 B	55	3.37	2
3	0.170 B	108	1.58	0.800 B	109	8.78	0.590 B	44	2.24	3
4	0.175 B	80	1.38	0.400 B	107	3.70	0.540 B	27	1.25	4
5	0.190 B	97	1.59	0.340 B	58	1.70	0.570 B	30	1.48	5
6	0.480 B	119 S	4.73	0.240 B	35	0.75	0.620 B	48	2.46	6
7	0.210 B	102	1.85	0.200 B	25	0.43	0.390 B	46	1.55	7
8	0.170 B	74	1.09	0.210 B	19	0.34	0.315 B	34	0.93	8
9	0.150 B	51	0.66	0.230 B	18	0.36	0.310 B	35	0.94	9
10	0.145 B	51	0.64	0.240 B	18	0.37	0.305 B	36	0.95	10
11	0.140 B	51	0.62	0.350 B	27	0.82	0.280 B	31	0.78	11
12	0.135 B	46	0.52	0.485 B	114	4.78	0.280 B	43	1.04	12
13	0.130 B	37	0.42	15.6	374	543	0.280 B	81	1.96	13
14	0.160 B	28	0.40	33.5	846 S	2 750	0.280 B	57	1.43	14
15	0.140 B	20	0.24	5.85	212 S	122	0.315 B	55	1.52	15
16	0.120 B	19	0.20	4.10	135	46.2	3.00 B	245	63.5	16
17	0.145 B	16	0.20	3.68 E	126	40.2	2.20 B	322	81.2	17
18	0.125 B	13	0.14	3.28	114	33.4	1.83 B	183	35.8	18
19	0.110 B	14	0.13	2.81	105	24.6	1.48 B	103	13.2	19
20	0.105 B	16	0.15	2.44	103	22.8	2.20 B	138	26.9	20
21	0.100 B	13	0.11	1.49	104	13.4	15.3	881 S	781	21
22	0.095 B	14	0.11	1.40	102	12.3	4.80	158 S	62.0	22
23	0.110 B	19	0.18	1.28	120	13.4	2.28	63	12.4	23
24	0.140 B	59	0.71	1.40	175 S	21.3	2.40 E	68	13.7	24
25	0.195 B	50	0.84	1.44 E	160	19.9	2.53	111	24.3	25
26	0.180 B	31	0.43	1.49	53 S	6.82	2.76	123 S	28.3	26
27	0.135 B	38	0.41	1.03	38	3.38	2.07	54	9.86	27
28	0.110 B	32	0.30	0.780 B	37	2.48	1.65	24 S	3.42	28
29	0.100 B	30	0.28	0.630 B	33	1.80	1.48 E	15	1.93	29
30	0.115 B	31	0.31				1.32 E	9	1.03	30
31	0.095 B	27	0.22				1.16	7 S	0.70	31
TOTAL	4.885		24.04	87.765		3 701.72	54.725		1 183.03	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.04	7	0.63	0.427	17	0.63	0.300	41 S	1.06	1
2	1.06	10 S	0.92	0.400 E	17	0.59	0.271 E	53	1.24	2
3	0.977 E	8	0.68	0.373	20	0.64	0.242 E	37	0.77	3
4	0.895	15 S	1.24	3.00 E	28	8.74	0.212	27 S	0.50	4
5	18.4	572 S	909	1.20 E	20	2.07	0.201 E	28	0.48	5
6	15.0 E	287	372	0.858	13 S	0.97	0.185	26 S	0.39	6
7	11.5 E	128	128	0.825	23	1.24	0.197	28	0.43	7
8	6.07 E	83	43.8	2.56	84 S	14.2	0.177	37 S	0.41	8
9	4.83 E	37	14.6	2.32	43	8.62	0.185 E	28	0.47	9
10	1.19	19 S	1.55	1.18	18	1.84	0.190 E	25	0.41	10
11	1.15	12	1.19	0.828	11 S	0.79	0.182	20 S	0.26	11
12	1.00	13 S	1.12	0.833 E	10	0.71	0.158	20	0.27	12
13	1.00	17	1.47	0.740 E	13	0.83	0.152	25 S	0.33	13
14	11.5 E	21	20.8	0.700 E	15 S	0.91	0.195 E	28	0.44	14
15	22.0 E	42	78.6	0.838	11 S	0.80	0.182	17 S	0.22	15
16	32.5	124 S	348	0.445	11	0.42	0.178 E	17	0.25	16
17	3.88	78 S	27.2	0.420 E	12	0.44	0.201 E	45	0.78	17
18	2.36	18 S	3.51	0.405 E	12	0.42	0.225	31 S	0.60	18
19	1.52	14 S	1.84	0.430 E	11	0.41	0.173	14	0.21	19
20	1.04 E	14	1.26	0.390 E	12	0.40	0.155	22 S	0.30	20
21	0.780 E	13	0.88	0.400 E	25	0.85	0.150 E	41	0.53	21
22	0.700 E	15	0.91	0.385 E	60	1.89	0.142	67 S	0.82	22
23	0.870 E	32	2.68	0.614	59 S	3.13	0.165 E	88	1.25	23
24	1.03	30 S	2.87	0.385 E	25	0.85	0.230 E	166	3.10	24
25	1.10	20	1.90	0.384	13 S	0.41	0.139	83 S	1.00	25
26	0.828	14 S	1.00	0.317	16	0.44	0.139	22 S	0.26	26
27	0.741 E	13	0.83	0.281 E	27	0.88	0.161	39 S	0.81	27
28	0.884 E	14	0.78	0.245	63 S	1.31	0.185	31	0.42	28
29	0.868 E	16	0.78	0.472	86	3.58	0.147 E	32 S	0.41	29
30	0.681	17 S	0.71	0.483	57 S	2.68	0.138	35	0.42	30
31				0.382	36	1.19				31
TOTAL	148.574		1 872.88	23.068		80.48	5.818		15.84	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.130 E	36	0.43	0.120	5 S	0.05	0.195 E	19	0.32	1
2	0.130 E	36	0.43	0.120 E	3	0.03	0.800 E	82	4.77	2
3	0.130	42	0.50	0.120	2 S	0.02	0.285 E	89	1.35	3
4	0.130	42 S	0.50	0.121 E	4	0.04	0.180 E	28	0.40	4
5	0.133	40	0.46	0.122 E	8	0.08	0.155 E	24	0.32	5
6	0.210 E	52 S	0.84	0.123 E	34	0.38	0.145 E	19	0.24	6
7	0.143 E	54	0.67	0.125 E	33	0.36	0.144 E	18	0.22	7
8	0.149	50	0.64	0.126	30 S	0.33	0.143 E	15	0.18	8
9	0.144 E	49 S	0.61	0.160 E	46	0.64	0.140 E	46	0.55	9
10	0.139	48	0.58	0.126	20 S	0.22	1.50 E	190	24.8	10
11	0.136	45 S	0.53	0.405 E	18	0.63	0.485 E	49	2.05	11
12	0.133	40	0.46	0.145 E	28	0.35	0.273	17 S	0.40	12
13	0.136	38 S	0.45	0.170 E	662 S	9.72	1.10 E	146	13.9	13
14	0.133 E	35	0.40	0.584 E	118	5.85	0.345 E	52	1.55	14
15	0.129 E	34	0.38	0.205	52 S	0.82	0.270 E	31	0.72	15
16	0.126	32 S	0.35	0.191 E	12	0.20	0.218 E	22	0.41	16
17	0.118	31	0.31	0.176 E	10 S	0.15	0.188 E	23	0.39	17
18	0.158	30 S	0.41	0.162 E	39	0.55	0.180 E	22	0.34	18
19	0.132	28	0.32	0.200 E	27	0.47	0.175 E	18	0.27	19
20	0.126	31 S	0.34	0.133	14 S	0.16	0.170 E	15	0.22	20
21	0.123 E	42	0.45	0.129 E	8	0.09	0.170 E	14	0.21	21
22	0.120 E	40	0.41	0.126	14 S	0.15	0.160 E	11	0.17	22
23	0.116	32 S	0.32	0.133	21	0.24	0.170 E	7	0.10	23
24	0.120	28	0.29	0.133	18 S	0.22	0.194 E	8	0.13	24
25	0.110	19 S	0.18	0.130 E	18	0.21	0.275 E	40	0.85	25
26	0.118 E	18	0.18	0.125 E	18	0.19	0.220 E	35	0.67	26
27	0.126	12 S	0.13	0.130 E	18	0.20	0.165	18 S	0.26	27
28	0.126 E	12	0.13	0.150 E	44	0.57	0.170 E	17	0.25	28
29	0.126	10	0.11	0.400	288 S	8.85	0.162 E	20	0.31	29
30	0.076	6 S	0.04	0.280 E	41	0.88	0.160 E	18	0.28	30
31	0.089 E	7	0.05	0.200 E	28	0.45				31
TOTAL	4.063		11.88	5.570		34.48	8.787		58.55	TOTAL

ONTARIO

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 08	09:25		0.186	S	121	3.5																DH48
FEB 14	14:10		37.0		849	3.5	1	3	10	17	27	42	61	88	99	100		78	58	39	3	DH59
FEB 15	12:40	3.3	8.55		177	3.5																DH59
FEB 24	08:25	0.5	1.84		188	3.5																DH59
FEB 26	13:55	0.1	1.49		35	3.5																DH48
MAR 21	17:20	0.1	15.3		507	3.5												323				DH48
MAR 22	18:30	0.1	4.80		98	3.5																DH59
MAR 26	12:45		3.84		120	3.5																DH59
MAR 28	18:45		1.85		19	3.5																DH48
MAR 31	11:10		1.15		8	3.5																DH48
APR 02	13:00		1.03		7	3.5																DH48
APR 02	17:20		1.04		8	3.5																DH48
APR 04	16:10		0.895		8	3.5																DH48
APR 05	16:35		18.6		671	3.5												322				DH48
APR 10	18:40		1.18		13	3.5																DH48
APR 12	17:20		1.00		15	3.5																DH48
APR 16	18:30		32.5		186	3.5																DH48
APR 17	18:30		32.6		44	3.5												346				DH48
APR 18	12:35		2.35		13	3.5																DH48
APR 19	18:40	10.5	1.52		13	3.5																DH48
APR 24	18:50	8.5	1.03		27	3.5																DH48
APR 28	18:30	14.0	0.828		11	3.5																DH48
APR 30	18:30	15.3	0.481		15	3.5																DH48
MAY 06	11:31	10.5	0.888		12	3.5																DH48
MAY 08	18:30	10.0	2.56		88	3.5												335				DH48
MAY 11	18:30	11.0	0.828		9	3.5																DH48
MAY 14	08:35	6.0	0.738		14	3.5																DH48
MAY 15	10:45	10.5	0.636		9	3.5																DH48
MAY 23	09:40		0.580		71	3.5												342				DH48
MAY 25	11:25	16.0	0.373		13	3.5																DH48
MAY 28	13:55		0.365		84	3.5																DH48
MAY 30	15:45		0.483		84	3.5																DH48
JUN 01	13:50		0.300		47	3.5												188				DH48
JUN 04	09:13		0.205		28	3.5																DH48
JUN 06	14:00		0.185		23	3.5												183				DH48
JUN 08	14:05		0.173		27	3.5																DH48
JUN 11	08:10		0.159		20	3.5																DH48
JUN 13	09:40		0.149		24	3.5												185				DH48
JUN 15	01:45		0.152		18	3.5																DH48
JUN 18	09:14		0.225		15	3.5																DH48
JUN 20	01:30		0.158		20	3.5																DH48
JUN 22	09:05		0.149		88	3.5																DH48
JUN 25	11:00		0.139	H	49	3.5												239				DH48
JUN 26	12:50	25.0	0.146		12	3.5																DH48
JUN 27	14:50		0.161		30	3.5																DIP
JUN 29	07:50		0.147	Y	30	3.5												281				DH48
JUL 04	13:50		0.139		40	3.5																DH48
JUL 06	09:20		0.210	Y	48	3.5																DH48
JUL 08	09:15		0.144	Y	46	3.5																DH48
JUL 11	09:05		0.133		46	3.5																DH48
JUL 13	09:00		0.139		38	3.5												290				DH48
JUL 16	09:45		0.123		32	3.5																DH48
JUL 18	14:05		0.177		30	3.5																DH48
JUL 20	09:20		0.126		28	3.5												282				DH48
JUL 23	09:10		0.118		32	3.5																DH48
JUL 25	09:00		0.110		16	3.5																DH48
JUL 27	13:45		0.128		13	3.5																DH48
JUL 30	10:30		0.075		8	3.5																DH48
AUG 01	16:00		0.120		2	3.5																DIP
AUG 03	13:00		0.120		3	3.5																DH48
AUG 08	09:05		0.126		25	3.5												380				DH48
AUG 10	13:20		0.126		18	3.5																DH48
AUG 13	12:15		0.863		909	3.5																DH48
AUG 15	14:20		0.205		8	3.5	44	48	77	91	97	99	100					306	1	53	46	DH48
AUG 17	13:35		0.178	Y	3	3.5												350				DH48
AUG 20	13:55		0.133		10	3.5																DH48
AUG 22	10:45		0.126		5	3.5																DH48
AUG 24	13:35		0.133		19	3.5																DH48
AUG 28	10:00		0.400		216	3.5																DH48
SEP 12	12:55		0.285		15	3.5												323				DIP
SEP 27	12:45	9.0	0.131		18	3.5																DIP
DEC 05	11:30		0.480	W	8	3.5																DIP
																		415				DIP

NOTE : SINGLE VERTICAL LOCATED AT 3.5 METRES

DISCHARGE SYMBOL(S): S - ICE CONDITIONS H - DAILY MEAN W - DAILY MEAN; ICE CONDITIONS
Y - DAILY MEAN; ESTIMATED

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1984

DATE	TIME	INSTANT. DISCHARGE (m³/s)	SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	4.00	8.00	16.00	32.00	64.00	TYPE OF SAMPLER
MAY 14	08:45	0.738	0.0			1	10	30	82	99	100								SCOOP
MAY 14	08:45	0.738	2.0			1	1	2	4	7	9	12	19	27	41	75	100		SCOOP
MAY 14	08:45	0.738	4.0						1	2	3	4	6	9	17	56	100		SCOOP
MAY 14	08:45	0.738	6.0				1	1	2	2	3	3	4	6	10	37	100		SCOOP
MAY 14	08:45	0.738	8.0						1	1	2	3	4	6	10	25	100		SCOOP
MAY 14	08:45	0.738	10			4	15	49	93	99	100								SCOOP

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : FEB-JUN MEAN LOAD (TONNES)	SUMMARY : FEB-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : FEB-JUN STANDARD ERROR OF MEAN %
1980	JUL-DEC	M-S	477	JUL 21	4	SEP 08	107	JUL 20	750		---	---	---
1981	JAN-DEC	M-C	801	FEB 20	1	OCT 14 *	849	FEB 20	1 840		10.6	10.6	---
1982	JAN-APR	M-S	1 250	MAR 31	2	APR 26	1 130	APR 03	3 490		---	---	---
1983	FEB-DEC #	M-S	2 300	MAR 19 *	1	MAR 16	1 800	MAR 19	2 900		18.3	15.0	29.0
1984	JAN-DEC	M-S	909	AUG 13	2	AUG 01	2 750	FEB 14 *	7 030	*	45.7	25.2	41.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

FAWN RIVER BELOW BIG TROUT LAKE - STATION NO. 04CE002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	JUN-SEP #	M-MS	2	JUN 10 *	2	JUN 10 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

GRAND RIVER AT BRANTFORD - STATION NO. 02GB001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	APR-APR	M-MS	1 370	APR 20 *	282	APR 21 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

GRAND RIVER AT GALT - STATION NO. 02GA003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	APR-APR	M-MS	348	APR 20 *	348	APR 20 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

HALFWAY CREEK AT MOOSONEE - STATION NO. 04KA002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1978	AUG-DEC #	M-S	79	AUG 02	12	NOV 08	25.5	AUG 02	94.3	---	---	---
1979	JAN-DEC	M-C	51	JAN 29	3	DEC 03	40.6	APR 26	898	2.46	2.46	---
1980	JAN-DEC	M-C	69	APR 16	2	NOV 08 *	45.8	MAY 02	493	1.35	1.91	29.1
1981	JAN-DEC	M-C	70	JUN 17	14	JAN 14	21.5	MAY 14	1 080	2.69	2.23	20.6
1982	JAN-DEC	M-C	94	MAR 28	4	SEP 20	148	MAY 07	1 790	4.91	2.90	25.8
1983	JAN-DEC	M-C	272	MAY 19 *	25	JUL 27	421	MAY 05 *	4 760 *	13.1	4.94	42.9

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

\# - PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 53 15 N LONG 78 49 30 W
DRAINAGE AREA: 41.6 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD IS 995.97 TONNES FOR THE PERIOD JAN 01 TO SEP 30

REMARKS: SEASONAL OPERATION (FRESHET - MAY 31)

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.090 B	25	0.19	0.090 B	76	0.59	0.385 B	88	2.88	1
2	0.095 B	24	0.20	0.105 B	74	0.67	0.420 B	86	3.12	2
3	0.105 B	23	0.21	0.470 B	172	6.98	0.285 B	94	2.15	3
4	0.115 B	24	0.24	0.260 B	148	3.32	0.280 B	83	1.88	4
5	0.230 B	36	0.72	0.235 B	127	2.58	0.285 B	82	2.02	5
6	0.421 B	73 S	2.66	0.200 B	110	1.90	0.310 B	86	2.36	6
7	0.100 B	73	0.63	0.150 B	102	1.32	0.220 B	88	1.67	7
8	0.065 B	70	0.39	0.170 B	100	1.47	0.215 B	81	1.50	8
9	0.055 B	70	0.33	0.200 B	100	1.73	0.200 B	82	1.42	9
10	0.030 B	63	0.16	0.210 B	98	1.78	0.175 B	77	1.16	10
11	0.023 B	60	0.12	0.290 B	121	3.03	0.170 B	73	1.07	11
12	0.020 B	128	0.22	0.350 B	344	10.4	0.165 B	66	0.94	12
13	0.045 B	153	0.59	0.730 B	3 880	243	0.170 B	65	0.95	13
14	0.090 B	120	0.83	19.5	4 750 S	8 000	0.220 B	83	1.58	14
15	0.060 B	108	0.57	2.58	372 S	82.9	0.255 B	91	2.00	15
16	0.045 B	105	0.41	1.83	278	48.4	2.50 B	1 390	300	16
17	0.050 B	89	0.51	1.84	270	45.3	2.02	198	34.6	17
18	0.070 B	101	0.61	1.44	241	30.0	1.36	115	13.5	18
19	0.050 B	96	0.42	1.18	238	24.3	0.735	71	4.51	19
20	0.044 B	92	0.35	1.08	232	21.2	0.830 B	70	5.02	20
21	0.042 B	91	0.33	0.678	217	12.7	4.25 B	384 S	145	21
22	0.045 B	90	0.35	0.520 B	218	9.84	2.67	141 S	32.5	22
23	0.060 B	109	0.57	0.840	227	12.8	0.950 B	132	10.9	23
24	0.135 B	172	2.01	0.692	207 S	12.4	0.920 B	176	14.0	24
25	0.230 B	118	2.34	0.500 B	156	6.74	2.03	227	38.8	25
26	0.180 B	99	1.54	0.410 B	130 S	4.61	1.43	203 S	25.1	26
27	0.110 B	118	1.12	0.370 B	118	3.80	1.10	142	13.5	27
28	0.085 B	134	0.98	0.350 B	91	2.75	0.813	101 S	7.09	28
29	0.075 B	111	0.72	0.340 B	73	2.14	0.618	88	4.58	29
30	0.090 B	87	0.68				0.498	86	3.89	30
31	0.075 B	81	0.52				0.490	82 S	3.47	31
TOTAL	2.940		21.62	37.601		6 596.45	26.815		883.74	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.470	116	4.71	0.200	17	0.29	0.134	88 S	1.02	1
2	0.428	141 S	5.21	0.188	18	0.31	0.109	86	0.81	2
3	0.368	111	3.72	0.173	34	0.51	0.094	79	0.64	3
4	0.397	357 S	12.2	1.31	299	33.6	0.076	78 S	0.51	4
5	9.57	1 120 S	926	0.506	88	2.97	0.081	78	0.53	5
6	1.93	208	36.4	0.327	28 S	0.79	0.086	74 S	0.55	6
7	1.12	125	12.1	0.262	24	0.54	0.082	69	0.49	7
8	0.669	93	5.36	1.88	351 S	57.0	0.077	77 S	0.51	8
9	0.522	87	3.92	0.656	84	5.95	0.081	74	0.58	9
10	0.426	82 S	3.02	0.470	36	1.46	0.077	65	0.43	10
11	0.398	80	2.74	0.556	24 S	1.15	0.081	62 S	0.33	11
12	0.336	82 S	2.38	0.514	28	1.24	0.050	80	0.28	12
13	0.324	87	2.44	0.367	18	0.54	0.142	77 S	0.84	13
14	0.439	125	4.74	0.306	17 S	0.45	0.104	110	0.88	14
15	1.75	469	73.9	0.280	15 S	0.34	0.047	69 S	0.35	15
16	3.02	776 S	202	0.212	16	0.29	0.041	78	0.28	16
17	2.07	143 S	25.6	0.184	16	0.25	0.126	86	1.03	17
18	0.822	35 S	2.49	0.176	11	0.17	0.322	88 S	2.45	18
19	0.572	26	1.28	0.185	10	0.17	0.085	40	0.22	19
20	0.486	30	1.21	0.180	13	0.17	0.059	40 S	0.20	20
21	0.352	30	0.81	0.159	20	0.27	0.044	70	0.27	21
22	0.312	30	0.81	0.130	88	0.86	0.042	110 S	0.40	22
23	0.547	83	2.50	0.598	108 S	5.63	0.042	108	0.40	23
24	0.556	35 S	1.68	0.212	20	0.37	0.590	178	8.12	24
25	0.477	31	1.28	0.169	15 S	0.19	0.113	76 S	0.74	25
26	0.351	28 S	0.85	0.155	17	0.24	0.042	24 S	0.08	26
27	0.284	24	0.59	0.105	19	0.17	0.284	178 S	4.38	27
28	0.245	24	0.51	0.283	171 S	4.18	0.062	138	0.74	28
29	0.238	22	0.45	0.281	124	3.01	0.043	111 S	0.41	29
30	0.305	24 S	0.63	0.203	81 S	1.42	0.042	102	0.37	30
31				0.184	84	1.18				31
TOTAL	29.782		1 339.65	11.824		126.72	3.239		30.07	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.034	90	0.26	0.024	33 S	0.07	0.038	8	0.03	1
2	0.028	75	0.18	0.025	33	0.07	0.496	287	11.4	2
3	0.024	64	0.15	0.030	38 S	0.10	0.143	104	1.28	3
4	0.057	70 S	0.34	0.028	26	0.06	0.054	28	0.13	4
5	0.087	78	0.59	0.024	23	0.05	0.039	15	0.05	5
6	0.483	140 S	5.80	0.038	38	0.12	0.031	10	0.03	6
7	0.078	106	0.69	0.032	35	0.10	0.033	19	0.05	7
8	0.045	68	0.33	0.025	27 S	0.06	0.032	23	0.06	8
9	0.035	81 S	0.24	0.089	50	0.38	0.028	52	0.15	9
10	0.037	77	0.25	0.026	14 S	0.03	1.27	542	59.5	10
11	0.120	177 S	1.84	0.023	11	0.02	0.328	55	1.56	11
12	0.032	84	0.23	0.030	25	0.06	0.111	11 S	0.11	12
13	0.029	51 S	0.13	0.980 E	556 S	48.1	0.938	247	20.0	13
14	0.026	48	0.11	0.120 E	80	0.83	0.268	82	1.20	14
15	0.028	49	0.12	0.160 E	123 S	1.59	0.172	53	0.79	15
16	0.030	51 S	0.13	0.080 E	12	0.08	0.100	33	0.28	16
17	0.162	80	1.12	0.050 E	10 S	0.04	0.088	30	0.18	17
18	0.115	38 S	0.38	0.040 E	113	0.39	0.058	33	0.17	18
19	0.032	35	0.10	0.073 E	43	0.27	0.047	37	0.15	19
20	0.074	56 S	0.36	0.040 E	25 S	0.09	0.043	30	0.11	20
21	0.105	49	0.44	0.030 E	23	0.05	0.040	23	0.08	21
22	0.035	12	0.04	0.040 E	20 S	0.07	0.044	23	0.09	22
23	0.028	8 S	0.02	0.048 A	14	0.05	0.044	20	0.08	23
24	0.025	15	0.03	0.043	12 S	0.04	0.050	45	0.18	24
25	0.024	25 S	0.05	0.034	11	0.03	0.220	112	2.13	25
26	0.028	20	0.04	0.033	9	0.03	0.127	83	0.91	26
27	0.055	28 S	0.13	0.031	8	0.02	0.051	46 S	0.20	27
28	0.028	22	0.05	0.043	36	0.13	0.048	40	0.17	28
29	0.025	15	0.03	0.824	428 S	30.5	0.058	45	0.22	29
30	0.023	15 S	0.03	0.181	37	0.61	0 044	40	0.15	30
31	0.023	19 S	0.04	0.059	7	0.04				31
TOTAL	1.935		14.05	3.281		82.20	5.023		101.48	TOTAL

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 06	08:45	0.1	0.421	W	70	5.3																DH48
FEB 14	15:10	0.1	12.1		1580	5.3	8	11	15	24	36	50	65	90	99	100		119	50	39	11	DH59
FEB 15	12:35	0.1	1.91		302	5.3	33	45	57	70	81	88	95	99	100			254	12	43	45	DH59
FEB 24	09:30	0.5	0.670		213	5.3																DH48
FEB 26	13:51		0.410	W	127	5.3												521				DH48
MAR 21	17:30		4.25	W	155	5.3																DH59
MAR 22	16:25		2.54		140	5.3																DH59
MAR 26	11:10		1.01		184	5.3																DH48
MAR 28	18:40		0.986		95	5.3																DH48
MAR 31	11:20		0.434		57	5.3																DH48
APR 02	10:20		0.408		141	5.3																DH48
APR 02	17:25	0.5	0.380		11	5.3																DH48
APR 04	16:20		0.390		283	5.3												325				DH48
APR 05	16:45		5.28		699	5.3																DH48
APR 10	18:40		0.401		78	5.3																DH48
APR 12	17:20		0.318		76	5.3																DH48
APR 15	18:40		5.93		1610	5.3	5	11	19	32	53	71	86	97	100			306	29	60	11	DH48
APR 17	18:40		1.35		94	5.3																DH48
APR 18	12:15		0.812		28	5.3																DH48
APR 24	19:00	8.0	0.539		32	5.3																DH48
APR 28	18:40	15.5	0.296		25	5.3																DH48
APR 30	18:25	15.5	0.245		18	5.3																DH48
MAY 08	11:52	12.8	0.324		26	5.3												455				DH48
MAY 08	18:32	12.0	3.14		255	5.3																DH48
MAY 11	16:45	11.5	0.384		20	5.3																DH48
MAY 14	08:10	7.0	0.285		17	5.3																DH48
MAY 15	10:55	8.8	0.245		14	5.3																DH48
MAY 23	09:11		0.434		35	5.3												507				DH48
MAY 25	11:35	15.8	0.199		15	5.3																DH48
MAY 28	13:35		0.222		244	5.3																DH48
MAY 30	15:27		0.195		79	5.3												287				DH48
JUN 01	13:38		0.120		90	5.3																DH48
JUN 04	09:02		0.072		79	5.3																DH48
JUN 06	13:44		0.064		70	5.3																DH48
JUN 08	13:53		0.051		78	5.3																DH48
JUN 11	09:00		0.048		84	5.3																DH48
JUN 13	09:30		0.042		53	5.3												306				DH48
JUN 15	01:35		0.037		89	5.3																DH48
JUN 18	09:04		0.574		40	5.3																DH48
JUN 20	01:15		0.084		38	5.3																DH48
JUN 22	09:00		0.042	H	113	5.3																DH48
JUN 25	10:47		0.072		79	5.3												582				DH48
JUN 26	17:20		0.045		20	5.3																DH48
JUN 27	07:43		0.516		288	5.3																DIP
JUN 28	07:54		0.045		113	5.3												292				DH48
JUL 04	13:40		0.099		72	5.3																DH48
JUL 06	09:30		0.048		44	5.3																DH48
JUL 09	09:05		0.043		81	5.3												456				DH48
JUL 11	08:55		0.395		154	5.3																DH48
JUL 13	09:18		0.029	H	45	5.3												477				DH48
JUL 16	09:30		0.024		52	5.3																DH48
JUL 18	13:55		0.043		17	5.3																DH48
JUL 20	09:10		0.010		31	5.3												413				DH48
JUL 23	09:00		0.008		7	5.3																DH48
JUL 25	08:45		0.001		20	5.3																DH48
JUL 27	13:20		0.015		22	5.3												594				DH48
JUL 30	09:00		0.025		13	5.3																DH48
JUL 31	10:00		0.023	H	17	5.3																DH48
AUG 01	15:50		0.004		40	5.3																DIP
AUG 03	12:50		0.028		38	5.3																DH48
AUG 08	08:55		0.015		29	5.3																DH48
AUG 10	13:10		0.014		10	5.3												634				DH48
AUG 13	12:10		14.6		883	5.3	28	39	48	60	75	89	98	99	99	100		278	20	51	29	DH48
AUG 15	14:05		0.150	Y	28	5.3																DH48
AUG 17	13:30		0.050	Y	11	5.3																DH48
AUG 20	13:45		0.040	Y	24	5.3																DH48
AUG 22	10:35		0.040	Y	15	5.3																DH48
AUG 24	13:00		0.028		10	5.3																DH48
AUG 28	08:50		0.250		553	5.3																DH48
SEP 12	12:30		0.113		8	5.3												368				DH48
SEP 27	12:25	1.0	0.045		46	5.3																DH48
DEC 06	11:00	1.0	0.185		10	5.3																DH48
																		589				DH48

NOTE : SINGLE VERTICAL LOCATED AT 5.3 METRES

DISCHARGE SYMBOL(S): H - DAILY MEAN W - DAILY MEAN; ICE CONDITIONS Y - DAILY MEAN; ESTIMATED

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1984

DATE	TIME	INSTANT. DISCHARGE (m³/s)	SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	4.00	8.00	16.00	32.00	64.00	TYPE OF SAMPLER
MAY 14	08:30	0.285	0.0	4	5	7	19	24	52	98	100								SCOOP
MAY 14	08:30	0.285	2.0							2	9	22	33	52	75	91	100		SCOOP
MAY 14	08:30	0.285	4.0					1	2	11	31	45	60	56	87	81	100		SCOOP
MAY 14	08:30	0.285	6.0						2	10	24	33	39	48	63	85	100		SCOOP
MAY 14	08:30	0.285	8.0				1	4	10	33	56	70	82	90	95	100			SCOOP
MAY 14	08:30	0.285	10	5	6	10	14	28	61	89	100								SCOOP

ONTARIO

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)				SAMPLED CONCENTRATION MINIMUM (mg/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-SEP MEAN LOAD (TONNES)	SUMMARY : JAN-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-SEP STANDARD ERROR OF MEAN %
1980	JUL-DEC	M-S	1 120	JUL 21			10	SEP 24			304	DEC 02			1 380		---	---	---
1981	JAN-DEC	M-C	1 350	FEB 23			2	AUG 27	*		881	FEB 20			4 120		14.8	14.8	---
1982	JAN-APR	M-S	2 450	MAR 31			4	APR 26			1 800	MAR 31			4 550		---	---	---
1983	JAN-DEC	M-C	3 110	MAR 19	*		5	MAR 16			2 180	MAR 19			5 500		16.1	15.5	4.2
1984	JAN-DEC	M-S	1 610	APR 16			7	JUL 23			8 000	FEB 14	*		11 000	*	40.1	23.7	34.7

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 48 39 N LONG 79 37 38 W
DRAINAGE AREA: 303 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 16 864.98 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	1.65 B	58	7.98	1.49 B	83	10.7	2.64 B	69	15.7	1
2	1.64 B	58	7.93	1.51 B	82	10.7	2.62 B	70	15.8	2
3	1.63 B	56	7.89	2.48 B	108	23.4	2.60 B	61	13.7	3
4	1.62 B	58 S	7.84	2.30 B	95	18.9	2.55 B	57	12.6	4
5	1.60 B	58	8.02	2.15 B	80	14.9	2.47 B	52	11.1	5
6	1.62 B	76	10.6	2.03 B	71 S	12.5	2.45 B	49	10.4	6
7	1.59 B	95	13.8	1.87 B	85	10.5	2.45 B	39	8.26	7
8	1.67 B	90	13.0	1.74 B	74	11.1	2.45 B	54	11.4	8
9	1.64 B	79	11.2	1.67 B	72	10.4	2.45 B	63	13.3	9
10	1.61 B	79	11.0	1.60 B	63	8.71	2.44 B	68	14.3	10
11	1.58 B	83	11.3	1.56 B	57	7.68	2.43 B	67	14.1	11
12	1.55 B	86	11.5	1.55 B	48	6.43	2.41 B	66	13.7	12
13	1.53 B	86	11.4	1.90 B	325	53.4	2.38 B	67	11.7	13
14	1.51 B	91	11.9	20.0 B	1 310 S	2 260	2.35 B	64	13.0	14
15	1.48 B	91	11.6	50.0 B	509	2 200	2.29 B	62	12.3	15
16	1.45 B	92	11.5	38.0 B	256	840	3.50 B	218	66.2	16
17	1.43 B	83 S	10.3	30.0 B	134	347	6.90 B	469	280	17
18	1.40 B	73	8.63	15.0 B	110	143	8.00 B	240	124	18
19	1.38 B	74	8.62	9.50 B	207	170	5.40 B	108	50.4	19
20	1.35 B	77	8.98	11.0 B	169	161	5.00 B	74	32.0	20
21	1.33 B	73	8.38	7.40 B	100	63.9	10.8 B	803	749	21
22	1.32 B	75	8.55	5.60 B	78	37.7	15.0 B	878	1 140	22
23	1.30 B	73	8.20	8.40 B	109	60.3	8.00 E	380 S	249	23
24	1.30 B	78	8.76	7.68	126	83.7	5.80 E	190	112	24
25	1.34 B	73	8.45	5.90	130	77.5	7.25 E	198	123	25
26	1.53 B	74	8.78	4.20 B	105	38.1	7.95 E	187	128	26
27	1.90 B	102	16.7	3.50 B	102	30.8	7.20 E	150	99.5	27
28	1.85 B	80	11.4	2.90 B	88	22.0	6.85 E	205	123	28
29	1.58 B	78	10.2	2.73 B	82	19.3	6.30 E	188	102	29
30	1.53 B	80	10.6				5.75 E	178	88.4	30
31	1.50 B	78	10.1				5.55 E	165	79.1	31
TOTAL	47.29		316.82	244.87		6 753.82	161.34		3 736.98	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	5.50 E	141	67.0	2.56	4	0.88	3.17	43	11.8	1
2	5.45 E	123	57.9	2.43	3	0.63	2.58	36	8.02	2
3	5.42 E	117	54.8	2.34	2	0.40	2.54	39	8.56	3
4	5.40 E	91	42.5	2.42	3	0.63	2.58	35	7.80	4
5	14.8 E	816 S	1 030	2.88	12	3.09	2.15	22 S	4.09	5
6	11.5 E	638	633	3.02	13	3.39	2.05	20	3.54	6
7	9.20 E	380	310	2.88	6	1.84	1.88	16	2.60	7
8	8.86	242	143	2.80	12	2.90	1.77	15	2.28	8
9	8.42	154	72.1	4.65 E	31	12.5	1.59	15	2.05	9
10	4.63	85	34.0	3.60 E	19 S	5.91	1.54	15	2.00	10
11	4.23	43 S	15.7	3.43	11	3.26	1.40	13	1.57	11
12	4.01	35	12.1	3.02	9	2.35	1.32	13	1.48	12
13	3.88	31	10.7	2.94	10	2.54	1.28	11	1.23	13
14	4.21	26	8.48	2.78	9	2.16	1.28	9	1.00	14
15	4.74	30	12.3	2.71	9	2.11	1.26	9	0.98	15
16	5.72	71	35.1	2.48	9	1.93	1.26	9	0.98	16
17	5.80 E	78	39.1	2.32	9 S	1.80	1.45	24	3.01	17
18	7.25 E	80 S	50.1	2.27	8	1.57	2.12	84 S	15.4	18
19	4.61 E	57	22.2	2.31	7	1.40	2.14	56	10.4	19
20	4.36	40	14.7	2.29	6	1.19	1.72	44	6.54	20
21	3.75	25	8.10	2.15	6	1.11	1.47	37	4.70	21
22	3.32	14	4.02	2.16	6	1.12	1.35	32	3.73	22
23	3.08	7	1.86	2.70	23	5.37	1.28	27	2.89	23
24	3.12	8	2.16	3.74	78	25.2	1.29	25	2.79	24
25	3.38	17	4.85	3.31	48 S	13.7	1.27	22	2.41	25
26	3.52	20	6.08	2.97	36	9.24	1.27	20	2.19	26
27	3.23	13 S	3.63	2.90	29	7.27	1.32	25	2.85	27
28	3.00	10	2.58	2.75	23	5.46	2.27	66	12.9	28
29	2.82	7	1.71	4.12	71	25.3	1.86	53	8.52	29
30	2.63	5	1.14	5.01	86	24.6	1.48	46	5.88	30
31				4.02	48 S	17.0				31
TOTAL	154.84		2 802.01	91.84		191.65	51.95		144.31	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

NUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	1.38	42	5.01	0.884	20	1.70	1.48	59	8.88	1
2	1.30	40	4.48	0.981	19	1.61	1.57	61	8.27	2
3	1.28	38	4.14	1.03	24	2.14	2.76	87	20.7	3
4	1.22	36 S	3.78	1.04	25	2.25	2.88	76	17.7	4
5	1.23	41	4.38	1.03	22	1.96	1.97	71	12.1	5
6	2.38	74	15.2	0.887	21	1.61	1.74	66	9.92	6
7	2.38	60	12.3	1.00	21	1.81	1.63	63	8.87	7
8	1.65	48	7.83	1.06	26	2.38	1.32	54	6.16	8
9	1.51	41	5.35	1.12	38	3.88	1.28	51	5.64	9
10	1.58	50	6.83	1.03	36	3.20	1.90	76	12.3	10
11	1.70	55	8.08	0.976	35	2.95	1.98	67	11.5	11
12	1.66	48	6.88	0.890	34	2.81	1.92	56	9.28	12
13	1.43	41	5.07	0.953	33	2.83	2.16	64	11.9	13
14	1.28	36	3.98	0.973	33	2.77	2.48	63	13.5	14
15	1.20	39	4.04	1.01	33 S	2.88	1.99	55	9.46	15
16	1.47	56	7.11	1.01	32	2.79	1.83	46	7.27	16
17	1.40	48	5.58	0.857	31	2.56	1.81	40	6.56	17
18	1.34	56 S	6.48	0.938	30	2.43	1.43	32	3.95	18
19	1.30	48	5.39	1.22	67	7.05	1.35	25 S	2.92	19
20	1.22	42	4.43	1.41	77	9.38	1.30	22	2.47	20
21	1.44	54	6.72	1.18	61	6.22	1.32	20	2.11	21
22	1.34	47	5.44	1.08	57 S	5.32	1.20	18	1.87	22
23	1.17	44	4.45	1.29	83	9.25	1.23	16	1.91	23
24	1.10	40	3.80	1.25	75	8.10	1.23	17	1.81	24
25	1.05	33	2.99	1.11	67	6.43	1.30	19	2.13	25
26	1.04	30	2.70	1.05	62	5.88	1.53	22	2.91	26
27	1.04	27	2.43	1.03	59	5.25	1.50	20	2.58	27
28	1.04	25	2.25	1.01	59 S	5.15	1.32	16	1.82	28
29	1.02	24	2.12	2.22	110	21.1	1.27	14	1.54	29
30	0.881	23	1.85	1.84	83	13.9	1.25	8	0.88	30
31	0.870	21 S	1.76	1.88	61	13.2				31
TOTAL	42.281		162.83	35.788		180.70	48.48		207.91	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	1.22	5	0.53	1.40	3	0.36	1.88	27	3.85	1
2	1.22	4	0.42	1.45	1 S	0.13	1.63	22	3.10	2
3	1.18	3	0.31	1.73	25	3.74	1.75	23 S	3.48	3
4	1.17	3	0.30	1.74	32	4.81	1.67	28	4.68	4
5	1.13	3	0.29	3.16	73	19.9	1.50	33 S	4.28	5
6	1.13	4	0.39	3.04	47	12.3	1.89 B	40 S	5.84	6
7	1.18	3	0.31	2.30	20	3.97	1.38 B	39	4.85	7
8	1.28	6	0.66	1.99	7 S	1.20	1.43 B	84	10.4	8
9	1.61	8 S	1.11	1.84	5	0.79	1.46 B	87 S	11.1	9
10	1.63	9	1.27	2.11	24 S	4.38	1.61 B	51	7.09	10
11	1.60	7	0.91	3.83	98 S	33.3	1.67 B	50 S	7.21	11
12	1.38	5	0.60	5.34	94	43.4	1.60 B	42	5.63	12
13	1.34	5	0.58	3.23	51	14.2	2.70 B	387 S	90.3	13
14	1.35	4	0.47	2.82	38	8.60	3.37	176	51.2	14
15	1.38	5	0.59	2.29	32 S	6.33	2.53	73	16.0	15
16	1.38	4	0.47	2.38	28	5.64	2.35	29	5.89	16
17	1.38	5 S	0.84	2.17	25	4.69	2.60	33 S	7.41	17
18	1.71	17	2.61	1.97	23 S	3.81	2.51	35 S	6.07	18
19	1.76	16	2.28	1.91	21	3.47	2.30	16	3.42	19
20	1.87	21	3.67	1.51	34 S	4.44	2.03	13	2.28	20
21	1.94	20	3.35	1.40 B	45	5.44	1.56 B	18	2.43	21
22	2.04	20	3.83	1.50 B	55 S	7.13	4.13 B	92 S	32.8	22
23	1.88	17	2.73	1.72 B	59	8.77	4.05	101 S	35.3	23
24	1.83	13	1.83	1.73 B	51	7.63	3.21	59	16.4	24
25	1.48	8 S	1.15	1.74 B	51 S	7.87	1.88	34	5.48	25
26	1.58	8 S	1.08	1.74 B	48	6.82	1.29	22	2.45	26
27	1.83	11	1.74	1.76 B	40 S	6.05	1.16 B	33	3.26	27
28	1.81	10	1.55	1.76	44 S	8.68	1.80 B	118 S	18.3	28
29	1.72	7	1.04	1.76	39	8.00	7.50 B	1 830 S	1 180	29
30	1.59	7	0.98	1.76	32	4.84	7.27	845	405	30
31	1.44	4	0.50				4.48	89	38.4	31
TOTAL	48.77		37.89	84.89		246.89	77.89		2 003.89	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 04	12:30	0.1	1.82	W	56	17.6												252				DH48
JAN 17	15:00	0.1	1.43	W	80	17.6																DH48
FEB 08	09:45	0.1	2.03	W	89	17.6																DH48
FEB 14	12:20		20.0	W	1310	17.6																DH48
FEB 14	18:00		20.0	W	864	17.6																DH59
MAR 23	13:30		8.00	Y	322	17.6																DH59
APR 05	18:55	5.0	14.6	Y	1800	17.6																DH48
APR 11	11:20	8.0	4.24		40	17.6	15	19	29	54	71	84	92	97	99	100		338	16	65	19	DH59
APR 16	13:07	9.0	7.25	Y	78	17.6												340				DH48
APR 27	10:00	13.0	3.24		14	17.6																DH48
MAY 10	11:30	13.0	3.60	Y	18	17.6												348				DH48
MAY 17	10:40	12.0	2.38		9	17.6												364				DH48
MAY 25	14:35	12.0	3.24		43	17.6																DH48
MAY 31	12:20	12.0	4.08		49	17.6												318				DH48
JUN 05	10:30	18.0	2.18		21	17.6												336				DH48
JUN 18	10:55	21.0	1.87		101	17.6																DH48
JUL 04	14:40	23.0	1.18		36	17.6												366				DH48
JUL 18	14:30	23.0	1.28		53	17.6																DH48
JUL 31	10:10	22.0	0.877		21	17.6																DH48
AUG 15	14:20	27.0	1.03		34	17.6												376				DH48
AUG 22	11:05	26.0	1.06		55	17.6																DH48
AUG 28	09:40	22.0	0.984		57	17.6																DH48
SEP 19	14:45	16.0	1.33		25	17.6																DH48
OCT 09	12:10	12.0	1.80		7	17.6												316				DH48
OCT 17	10:35	11.0	1.33		6	17.6																DH48
OCT 25	13:45	8.0	1.46		9	17.6																DH48
OCT 26	09:25	8.0	1.53		7	17.6																DH48
NOV 02	14:30	7.0	1.45		1	17.6																DH48
NOV 08	15:50	8.0	1.98		5	17.6												383				DH48
NOV 10	13:05	7.5	2.07		24	17.6																DH48
NOV 11	14:30	7.0	4.15		125	17.6																DH48
NOV 15	13:10	3.0	2.22		32	17.6												388				DH48
NOV 18	17:55	2.0	1.88		22	17.6																DH48
NOV 20	17:15	0.1	2.08		54	17.6																DH48
NOV 22	13:15	1.0	1.58		56	17.6												311				DH48
NOV 25	12:40	0.5	1.98		52	17.6																DH48
NOV 27	09:00	2.0	1.83		35	17.6												294				DH48
NOV 28	14:15	3.0	1.74		44	17.6																DH48
DEC 03	13:35	2.0	1.70		19	17.6																DH48
DEC 05	12:00	0.5	1.18		27	17.6																DH48
DEC 08	15:45	0.5	1.88	W	40	17.6												301				DH48
DEC 09	12:50	0.1	1.48	W	88	17.6																DH48
DEC 11	15:23	0.1	1.87	W	47	17.6																DH48
DEC 13	17:15	0.5	2.70	W	572	17.6												285				DH48
DEC 17	11:00	5.0	2.56		38	17.6	28	35	54	68	84	95	98	100				347	4	80	35	DH48
DEC 18	15:07	3.0	2.42		24	17.6																DH48
DEC 22	10:20	0.5	4.13	W	85	17.6																DH48
DEC 23	12:35	0.5	3.24		68	17.6												326				DH48
DEC 24	15:55	0.1	1.80	W	18	17.6												339				DH48
DEC 28	14:20	0.5	7.50	W	2850	WERB X	10	12	23	41	65	84	90	100				322	6	82	12	SURF

NOTE : SINGLE VERTICAL LOCATED AT 17.6 METRES

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS Y - DAILY MEAN; ESTIMATED
VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

NUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	MAR-DEC	M-S	470	MAR 01	7	MAY 12	288	MAR 01	4 380	---	---	---
1967	JAN-DEC	M-C	1 950	JUL 09	13	OCT 05	5 000	APR 03	23 800	65.3	65.3	---
1968	JAN-DEC	M-C	1 330	AUG 23	9	OCT 23	3 430	MAR 19	22 100	80.4	62.9	3.9
1969	JAN-DEC	M-C	2 250	APR 18	10	JUN 13	4 280	APR 18	24 800	67.3	64.3	3.2
1970	JAN-DEC	M-C	2 430	MAY 26	8	SEP 23	1 230	APR 09	8 720	23.9	64.2	18.6
1971	JAN-DEC	M-C	1 800	APR 02	10	NOV 10	2 440	APR 02	12 800	34.2	60.2	17.7
1972	JAN-DEC	M-C	1 920	APR 11	8	SEP 25	4 420	APR 14	23 800	64.9	62.7	14.5
1973	JAN-DEC	M-C	2 800	MAR 08	7	OCT 15	4 030	MAR 08	26 100	71.5	65.4	12.6
1974	JAN-DEC	M-C	2 100	MAY 17	8	OCT 15	5 850	MAR 05	32 100	87.9	69.4	12.3
1975	JAN-DEC	M-C	3 710	APR 18 *	8	OCT 10	12 000	APR 18 *	34 100	93.4	83.3	11.8
1976	JAN-DEC	M-C	3 610	MAR 20	8	OCT 19	7 950	MAR 20	37 400	102	87.1	11.5
1977	JAN-DEC	M-C	3 170	SEP 25	18	MAR 07	3 350	OCT 02	31 000	84.9	88.7	10.4
1978	JAN-DEC	M-C	3 320	APR 01	10	OCT 23	8 630	APR 01	39 800 *	109	72.1	10.2
1979	JAN-DEC	M-C	1 880	MAR 14	10	SEP 10	3 510	MAR 05	32 200	88 3	73.3	9.4
1980	JAN-DEC	M-C	3 280	APR 15	14	MAR 05	8 280	APR 15	25 100	71.2	73.2	8.7
1981	JAN-DEC	M-C	804	JUL 05	8	APR 23	4 700	FEB 19	20 000	54.7	71.8	8.4
1982	JAN-DEC	M-C	2 380	MAR 31	6	OCT 15	7 650	MAR 31	35 300	88.7	73.8	8.0
1983	JAN-DEC	M-C	1 070	MAY 03	11	NOV 15	1 420	FEB 03	14 800	40.8	71.8	8.2
1984	JAN-DEC	M-C	2 850	DEC 28	1	NOV 02 *	2 280	FEB 14	18 900	48.1	70.1	8.1

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

HUMBER RIVER AT WESTON - STATION NO. 02HC003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1965	APR-DEC	M-S	1 980	APR 08	18	JUN 11	13 100	APR 08	42 200	---	---	---
1966	JAN-DEC	M-C	1 380	MAR 05	12	OCT 02	5 940	MAR 05	37 400	103	103	---
1967	MAR-DEC #	M-S	1 430	APR 03	19	OCT 15	5 270	APR 03	42 800	---	---	---
1968	JAN-DEC	M-C	916	FEB 03	8	JAN 08	5 780	MAR 19	70 000	191	147	29.8
1969	JAN-DEC	M-C	2 110	APR 18	7	JUL 01	10 500	APR 18	89 100	188	161	18.0
1970	JAN-DEC	M-C	1 580	AUG 13	14	OCT 25	1 750	APR 09	27 600	75.7	140	21.1
1971	JAN-DEC	M-C	1 560	APR 02	7	AUG 05	11 000	APR 02	39 800	105	134	17.7
1972	JAN-DEC	M-C	838	APR 13	14	AUG 22	11 600	APR 13	74 800	204	145	15.8
1973	JAN-DEC	M-C	1 570	MAR 12	5	OCT 15 *	12 100	MAR 12	58 100	167	151	13.3
1974	JAN-DEC	M-C	2 450	MAY 17 *	8	NOV 19	25 000	MAY 17 *	112 000 *	305	171	15.3
1975	JAN-DEC	M-C	2 400	FEB 24	8	OCT 05	19 800	FEB 24	75 800	208	175	13.4
1976	JAN-DEC	M-C	784	JUL 08	8	JAN 05	14 800	MAR 21	75 100	208	178	11.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

KENOGAMI RIVER NEAR MAMMAMATTAWA - STATION NO. 04JG001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1983	MAY-OCT #	M-MS	60	MAY 11 *	4	OCT 28 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

KWATABOAHEGAN RIVER NEAR THE MOUTH - STATION NO. 04KA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1983	MAY-OCT #	M-MS	25	MAY 18 *	2	OCT 30 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

LITTLE CURRENT RIVER AT PERCY LAKE - STATION NO. 04JF001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1983	MAY-OCT #	M-MS	4	AUG 08 *	1	OCT 25 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 57 44 N LONG 81 30 55 W
DRAINAGE AREA: 54.8 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 211.34 TONNES FOR THE PERIOD JAN 01 TO MAY 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	0.720 B	12	0.75	0.587 B	4	0.20	1.48 B	15	1.92	1
2	0.700 B	12	0.73	0.580 B	6	0.30	1.42 B	14	1.72	2
3	0.680 B	12	0.71	1.00 B	30	2.59	1.38	14	1.68	3
4	0.670 B	24	1.39	2.15 B	18	3.34	1.33 B	14	1.61	4
5	0.680 B	20	1.18	1.86 B	14	2.37	1.31 B	14	1.69	5
6	0.660 B	13 S	0.76	1.75 B	13	1.97	1.28	13	1.44	6
7	0.670 B	11	0.64	1.54 B	12	1.60	1.23 B	13	1.38	7
8	0.660 B	11	0.63	1.44 B	11	1.37	1.18 B	13	1.33	8
9	0.650 B	10	0.56	1.37 B	10	1.18	1.07 B	13	1.20	9
10	0.650 B	9	0.51	1.32 B	9	1.03	0.980 B	13	1.10	10
11	0.640 B	8	0.44	2.00 B	17	2.94	0.975	12	0.91	11
12	0.640 B	7	0.39	2.68	46	11.4	0.975 B	12	0.91	12
13	0.630 B	6	0.33	5.77	94 S	46.9	0.950 B	11	0.82	13
14	0.630 B	6	0.27	14.3	109 S	135	0.940 B	11 S	0.80	14
15	0.625 B	4	0.22	12.7	30 S	32.9	0.837	11	0.80	15
16	0.623 B	4	0.22	8.59	19 S	14.1	2.00 E	18	3.11	16
17	0.621 B	3	0.16	6.80	19 S	10.8	4.00 E	40	13.8	17
18	0.620 B	2 S	0.11	8.55	17	9.62	4.50 E	33	12.8	18
19	0.610 B	2	0.11	7.22	35	21.8	2.58	20	4.48	19
20	0.605 B	2	0.10	8.13	35	24.6	3.13	28	7.57	20
21	0.604 B	3	0.16	5.22	19	8.57	6.55	52	29.4	21
22	0.603 B	2	0.10	3.98	15	5.16	5.75	18 S	8.94	22
23	0.602 B	3	0.16	4.43	22	8.42	3.38	13 S	3.81	23
24	0.601 B	3	0.16	5.06	23	10.1	2.77	11	2.63	24
25	0.600 B	3	0.16	3.82	17	5.32	2.65	13	2.98	25
26	0.598 B	3	0.16	2.73	18	3.77	2.81	15	3.84	26
27	0.595 B	3	0.15	2.27	16	3.14	2.82	15	3.67	27
28	0.593 B	4	0.20	1.82	18	2.85	2.58	18	4.63	28
29	0.590 B	4	0.20	1.50 B	15	1.94	3.05	20 S	5.27	29
30	0.587 B	4	0.20				2.65	17	4.19	30
31	0.584 B	4	0.20				2.79	15	3.82	31
TOTAL	19.582		12.06	118.187		375.08	71.800		133.74	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.69	14	3.25	0.524	15	0.66				1
2	2.52	13	2.83	0.582	15 S	0.80				2
3	2.33	11	2.21	0.566	15	0.77				3
4	2.24	11	2.13	0.531	15	0.69				4
5	3.30	30	8.55	0.517	15	0.67				5
6	3.50	21	6.35	0.501	15	0.65				6
7	2.67	11 S	2.84	0.478	15	0.62				7
8	2.20	8	1.71	0.465	15	0.60				8
9	1.89	8	1.47	0.463	15	0.60				9
10	1.68	8	1.16	0.475	15	0.62				10
11	1.52	7	0.92	0.444	14	0.54				11
12	1.39	7	0.84	0.467	15	0.61				12
13	1.28	6	0.67	0.488	21	0.89				13
14	1.25	6	0.65	0.520	25	1.12				14
15	1.34	7 S	0.81	0.474	22 S	0.90				15
16	1.33	9	1.03	0.431	20	0.74				16
17	1.51	12	1.57	0.414	18	0.64				17
18	1.63	12	1.69	0.579	26	1.30				18
19	1.38	10	1.20	0.723	33	1.64				19
20	1.26	8	0.88	0.630	17	0.78				20
21	1.12	7	0.68	0.450	15	0.58				21
22	0.963	6	0.51	0.617	28	1.49				22
23	0.925	4 S	0.32	3.90	167	56.3				23
24	0.944	7	0.57	2.07	76	13.4				24
25	0.932	14	1.13	1.38	44	5.26				25
26	0.869	16 S	1.32	5.26	117 S	53.2				26
27	0.781	16	1.21	3.19	35	9.66				27
28	0.703	17	1.03	1.84	10 S	1.59				28
29	0.657	17	0.97	1.61	7	1.09				29
30	0.634	17	0.93	1.62	8	1.12				30
31				1.38	7	0.82				31
TOTAL	47.348		51.01	33.757		180.33				TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 04	10:45	0.1	3.22	12	MID																DH59
JAN 18	11:13	0.1	2.20	3	MID																DH48
FEB 13	17:00	1.0	5.80	103	MID												227				DH59
FEB 14	10:45	1.0	15.7	80	MID																DH59
FEB 15	07:37	2.0	13.0	33	MID																DH59
FEB 16	08:05	0.1	9.24	17	MID																DH59
FEB 16	11:05	1.0	7.78	21	MID																DH59
FEB 17	07:40	1.0	5.80	17	MID																DH59
MAR 14	14:50	1.0	0.924	11	MID																DH59
MAR 22	12:10		5.37	16	MID																DH59
MAR 23	16:55	1.0	2.78	17	MID																DH59
MAR 29	10:30	3.0	2.83	16	MID												305				DH59
APR 07	13:50	5.0	2.54	10	MID																DH59
APR 15	16:45	10.0	1.35	8	MID																DH59
APR 23	16:40	8.0	0.890	4	MID																DH59
APR 26	12:45	12.0	0.848	19	MID																DH59
MAY 02	16:55	10.0	0.575	16	MID												364				DH59
MAY 15	09:10	9.0	0.484	23	MID																DH59
MAY 26	10:55	10.0	5.83	137	MID																DH48
MAY 28	11:00	13.0	1.92	9	MID																DH59
																					DH59

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : APR-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1981	SEP-OCT	M-MS	36	OCT 01	1	OCT 14 *	---		---		---	---	---
1982	APR-DEC	M-C	148	JUN 15 *	1	OCT 29	108	APR 01	782	*	2.85	2.85	---
1983	JAN-DEC	M-C	72	JUL 16	2	APR 28	9.39	SEP 23	378		1.05	1.05	48.2
1984	JAN-MAY	M-S	137	MAY 26	2	JAN 16	135	FEB 14 *	731		---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION MS - MISCELLANEOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

MAITLAND RIVER NEAR DONNYBROOK - STATION NO. 02FE004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1970	JAN-DEC	M-C	84	APR 09	1	JUN 09	1 830	APR 10	14 800		40.6	40.6	---
1971	JAN-DEC	M-C	84	APR 02	0	OCT 12 *	1 080	APR 10	11 800		31.4	36.3	12.4
1972	JAN-DEC	M-C	103	JUN 21	2	SEP 19	2 080	APR 15	20 100		54.9	42.5	15.8
1973	JAN-DEC	M-C	88	DEC 28	2	JAN 28	858	JAN 01	11 800		32.3	40.0	13.5
1974	JAN-DEC	M-C	237	MAY 17 *	1	MAY 29	8 530	MAY 18 *	48 100	*	135	57.2	31.0

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

MICHELL CREEK BELOW CLAREMONT - STATION NO. 02HC045

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-JUN MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL STANDARD ERROR OF MEAN %
1974	JUN-DEC	M-S	149	DEC 09	5	SEP 07 *	24.8	JUL 03	78.5		---	---	---
1975	JAN-DEC	M-C	532	MAR 18 *	5	NOV 29	210	FEB 24 *	901	*	4.55	4.55	---
1976	JAN-JUN	M-S	266	MAR 21	19	APR 03	141	MAR 21	472		2.80	3.68	27.2

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

MOOSE RIVER ABOVE MOOSE RIVER - STATION NO. 04LG004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
MAY 10	16:00	10.0	1980	78	MID												151				D49
AUG 17	14:30	20.0	380	45	MID																D49
OCT 25	12:15	4.0	344	88	MID												180				D49

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

MOOSE RIVER ABOVE MOOSE RIVER - STATION NO. 04LG004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : HISTORICAL STANDARD ERROR OF MEAN %
1984	MAY-OCT	M-MS	78	MAY 10 *	45	AUG 17 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

MOOSE RIVER AT MOOSE RIVER - STATION NO. 04LG002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : HISTORICAL STANDARD ERROR OF MEAN %
1975	MAY-MAY	M-MS	480	MAY 14 *	480	MAY 14	---	---	---	---	---
1976	JUL-JUL	M-MS	13	JUL 21	13	JUL 21 *	---	---	---	---	---
1977	MAY-MAY	M-MS	101	MAY 11	101	MAY 11	---	---	---	---	---
1978	JUL-OCT #	M-MS	51	OCT 18	32	JUL 26	---	---	---	---	---
1979	MAY-JUL #	M-MS	247	MAY 12	17	JUL 17	---	---	---	---	---
1980	MAY-OCT #	M-MS	103	MAY 06	73	AUG 03	---	---	---	---	---
1981	MAY-AUG #	M-MS	100	MAY 07	37	AUG 25	---	---	---	---	---
1983	MAY-OCT #	M-MS	83	AUG 08	47	MAY 16	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

ONTARIO

NANTICOKE CREEK AT NANTICOKE - STATION NO. 02GC022

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JUN 19	09:15	22.0	7.07	288	9.0												487				DH48
SEP 11	08:50	22.0	344	312	9.0												400				DH48

NOTE : SINGLE VERTICAL LOCATED AT 9.0 METRES

NANTICOKE CREEK AT NANTICOKE - STATION NO. 02GC022

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	JUN-SEP	M-MS	312	SEP 11 *	288	JUN 19 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

NITH RIVER NEAR CANNING - STATION NO. 02GA010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	APR-APR	M-MS	2 520	APR 20 *	2 520	APR 20 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

NORTH FRENCH RIVER NEAR THE MOUTH - STATION NO. 04MF001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	MAY-OCT #	M-MS	55	MAY 18 *	2	AUG 07 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

ONTARIO

NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE - STATION NO. 02EA010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1978	NOV-DEC	M-S	24	NOV 14	4	DEC 09	7.19	NOV 19	140	---	---	---
1979	JAN-DEC	M-C	94	NOV 25	3	NOV 09	292	NOV 27	3 440	9.42	9.42	---
1980	JAN-DEC	M-C	134	APR 09 *	1	FEB 15 *	385	APR 09	2 900	7.92	8.67	8.7
1981	JAN-DEC	M-C	123	MAR 31	5	FEB 20	418	APR 05 *	4 370 *	12.0	9.78	12.2
1982	JAN-DEC	M-C	131	APR 17	4	DEC 11	324	APR 18	2 920	8.01	8.34	10.2

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

NOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 44 16 59 N LONG 79 49 20 W
DRAINAGE AREA: 1 180 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 49 435.73 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	4.10 B	5	1.77	3.40 B	5	1.47	9.70 B	45	37.7	1
2	4.00 B	5	1.73	3.35 B	5	1.45	9.40 B	41	33.3	2
3	3.90 B	5	1.68	3.45 B	5	1.49	9.10 B	39	30.7	3
4	3.85 B	5	1.66	3.80 B	7	2.18	8.90 B	39	30.0	4
5	3.90 B	5	1.68	3.80 B	7	2.18	8.60 B	38	28.2	5
6	3.95 B	5	1.71	3.85 B	7	2.21	8.40 B	38	27.6	6
7	4.00 B	5	1.73	3.85 B	5	1.53	8.10 B	39	27.3	7
8	3.93 B	5	1.70	3.50 B	5	1.51	7.90 B	38	25.8	8
9	3.86 B	5	1.67	3.45 B	5	1.49	7.70 B	38	25.3	9
10	3.80 B	5	1.64	3.40 B	5	1.47	7.50 B	35	22.7	10
11	3.70 B	5	1.60	3.40 B	5	1.47	7.30 B	35	22.1	11
12	3.85 B	5	1.58	4.00 B	5	1.73	7.10 B	35	21.5	12
13	3.55 B	5	1.53	6.00 B	25	13.5	6.90 B	32	18.1	13
14	3.50 B	5	1.51	42.0 B	372	1 350	6.60 B	30	17.5	14
15	3.40 B	5	1.47	85.1 B	424 S	2 380	6.70 B	30	17.4	15
16	3.36 B	5	1.45	70.0 B	536 S	3 240	8.00 B	74	51.1	16
17	3.33 B	5	1.44	62.0 B	676 S	3 620	12.0 B	121	125	17
18	3.30 B	5	1.43	56.0 B	684 S	3 210	20.0 B	141	244	18
19	3.25 B	5	1.40	50.0 B	437 S	1 890	19.0 B	115	189	19
20	3.20 B	5	1.38	52.0 B	400 S	1 800	18.0 B	112	174	20
21	3.15 B	5	1.35	40.0 B	278 S	984	28.0 B	187	477	21
22	3.10 B	5	1.34	30.0 B	170 S	441	88.0 B	331	1 940	22
23	3.10 B	5	1.34	25.0 B	144 S	311	84.0 B	418	2 320	23
24	3.30 B	5	1.71	27.0 B	138 S	317	58.6	355	1 800	24
25	3.50 B	7	2.12	22.0 B	115	219	50.4	343 S	1 790	25
26	3.55 B	7	2.15	18.0 B	89	123	58.1	336	1 880	26
27	3.60 B	8	2.49	13.0 B	67 S	75.3	52.1	231 S	1 040	27
28	3.60 B	7	2.18	11.0 B	52	49.4	50.2	217	941	28
29	3.50 B	5	1.51	10.0 B	47	40.6	47.6	188	773	29
30	3.45 B	5	1.49				40.5	188	582	30
31	3.40 B	5	1.47				35.4	151	462	31
TOTAL	110.76		80.92	638.45		20 083.88	780.10		14 984.5	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	32.0	152	420	10.9	44	41.4	13.3	88	101	1
2	28.9	142	367	10.6	40	36.6	11.3	88	86.4	2
3	27.2	110	259	10.5	38 S	35.4	10.1	58	50.6	3
4	26.2	100	218	11.3	49 S	47.6	9.86	80	81.1	4
5	39.0	206	694	13.5	78	91.0	8.83	84 S	41.2	5
6	57.7	357 S	1 760	12.3	38 S	40.4	7.94	48	32.9	6
7	47.3	204	834	11.1	21 S	20.1	7.28	46 S	29.0	7
8	33.4	126 S	361	12.0	30	31.1	6.78	44	25.7	8
9	24.0	87 S	201	18.1	101	158	8.27	41	22.2	9
10	20.4	82 S	145	16.4	41 S	54.8	5.85	40 S	18.5	10
11	18.6	83 S	133	13.2	25	28.5	5.55	40	19.2	11
12	17.8	88 S	105	12.8	31 S	34.3	5.67	39	18.6	12
13	17.5	81 S	82.2	12.4	35 S	37.5	5.48	38	18.0	13
14	16.4	87 S	107	12.1	29	30.3	5.75	47 S	23.3	14
15	22.1	103 S	197	11.7	30	30.3	5.84	40	19.5	15
16	30.5	155 S	408	10.8	28 S	26.1	5.18	30	13.4	16
17	38.3	240 S	794	10.0	25	22.5	5.18	28	12.5	17
18	35.2	145 S	441	9.88	28	23.4	5.61	48	26.0	18
19	26.0	92 S	207	9.81	28	24.0	7.83	80	41.1	19
20	20.9	78 S	143	9.01	24	18.7	6.38	36 S	19.9	20
21	18.1	88	103	8.48	21	15.4	5.80	27	13.1	21
22	15.8	89	80.8	8.72	27 S	20.3	5.08	25 S	11.0	22
23	14.8	85	70.8	10.8	39 S	36.7	4.26	23	8.47	23
24	16.2	85 S	72.2	13.3	84	108	4.48	26 S	10.1	24
25	16.2	88 S	82.4	10.9	39 S	36.7	4.83	30	12.5	25
26	15.1	86	73.1	10.4	36	32.3	4.71	20	8.14	26
27	13.8	87 S	68.0	11.4	47	46.3	4.80	15 S	6.86	27
28	13.8	88	82.4	10.4	36 S	32.3	5.86	42	21.3	28
29	13.0	80	81.8	14.1	138	186	5.81	46	23.1	29
30	11.3	67	45.8	21.1	190	345	4.84	31	13.0	30
31				18.7	118 S	187				31
TOTAL	736.7		6 826.3	373.86		1 839.0	195.86		778.97	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	4.48	23 S	8.92	2.30	31	6.16	5.21	49 S	22.1	1
2	4.20	20	7.26	2.45	42 S	8.89	5.12	36 S	15.9	2
3	3.91	16	5.41	2.50	49	10.6	5.86	92 S	71.4	3
4	3.75	11	3.56	2.70	52	12.1	9.55	103	85.0	4
5	3.54	10	3.06	2.78	49	11.8	5.86	63	37.9	5
6	3.87	12	4.01	2.84	45	10.6	5.53	27 S	12.9	6
7	4.71	24 S	9.77	2.82	50	11.3	4.78	16	6.61	7
8	4.44	16 S	6.14	2.82	52	12.7	4.38	15	5.68	8
9	3.97	10 S	3.43	2.75	48	11.4	4.12	14 S	4.98	9
10	3.67	10	3.17	2.57	44	9.77	4.31	13	4.84	10
11	4.31	26	9.68	2.42	41	8.57	5.20	19 S	8.54	11
12	4.49	26 S	10.1	2.44	39	8.22	5.83	22	11.1	12
13	3.86	16	5.98	2.52	40 S	8.71	5.43	27 S	15.0	13
14	3.33	13	3.74	2.50	41	8.86	9.79	75	63.4	14
15	3.05	9	2.37	2.53	40	8.74	8.01	52	36.0	15
16	3.28	16	4.53	2.43	40	8.40	8.77	28	16.4	16
17	3.35	19 S	5.50	2.24	40	7.74	5.80	18	9.02	17
18	3.13	17	4.60	2.32	41	8.22	5.04	16 S	6.97	18
19	3.06	15 S	3.97	3.85	59	20.1	4.55	16	6.29	19
20	2.94	14	3.56	4.27	55	20.3	4.29	16	5.93	20
21	3.18	20 S	5.50	3.40	37 S	10.9	4.07	15	5.27	21
22	2.74	33	7.81	3.15	35	9.53	3.92	13	4.40	22
23	2.63	33	8.07	3.35	42	12.2	3.85	11	3.96	23
24	2.70	31	7.23	3.42	45	13.3	3.80	11	3.71	24
25	2.45	32	6.77	3.20	48	13.3	4.01	13	4.50	25
26	2.33	32	6.44	2.99	50 S	12.9	4.61	19	7.57	26
27	2.30	34	6.76	2.87	58	14.4	4.45	17	6.54	27
28	2.36	34 S	7.75	2.88	65 S	16.2	4.20	17	6.17	28
29	2.47	37	7.90	4.57	71	28.0	4.09	16	5.85	29
30	2.41	32 S	6.68	7.21	79	49.2	4.04	15	5.24	30
31	2.36	30	6.09	6.85	69	40.8				31
TOTAL	103.46		185.78	97.64		433.81	161.79		498.67	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	3.93	15	5.09	4.47	8	2.32	5.83	10 S	5.04	1
2	3.87	14	4.88	4.54	8	3.14	5.81	8	4.36	2
3	3.81	14	4.81	4.78	11	4.55	5.65	8	4.32	3
4	3.84	13	4.09	5.02	12	5.20	5.50 B	10	4.75	4
5	3.82	11	3.44	4.06	34 S	23.7	5.40 B	11	5.13	5
6	3.59	10	3.10	9.41	85	83.7	5.30 B	12	5.50	6
7	3.88	10 S	3.16	7.80	30 S	19.4	5.20 B	11	4.94	7
8	4.04	14	4.89	6.19	15	8.02	5.20 B	11	4.94	8
9	4.33	12	4.48	5.61	13	6.30	5.30 B	10	4.58	9
10	4.45	7 S	2.69	6.32	16	8.60	5.40 B	11	5.13	10
11	4.30	8	2.23	10.4	47 S	42.2	5.50 B	11	5.23	11
12	4.27	8	2.21	17.0	101	148	5.84	19 S	9.59	12
13	4.15	5	1.79	12.6	58	64.2	5.04	58	45.3	13
14	4.08	5	1.77	8.47	27 S	22.1	12.3	70	74.4	14
15	4.06	3 S	1.75	8.39	29	21.0	8.58	36	29.8	15
16	4.01	5	1.73	8.46	23	16.8	8.54	24	17.7	16
17	4.16	5	2.18	8.09	20	14.0	9.03	25	19.5	17
18	4.86	8	3.44	7.57	20	13.1	9.81	31	25.7	18
19	5.62	8	3.82	6.30 B	20	10.9	8.46	22	16.1	19
20	6.01	8 S	4.16	6.80 B	20	9.68	7.42	18	11.5	20
21	6.13	15	7.94	6.30 B	18 S	8.70	5.80 B	15	7.26	21
22	7.20	36 S	22.4	6.20 B	18	8.09	6.50 B	13	8.85	22
23	6.84	22	12.6	6.40 B	18	7.46	6.00 B	13	8.88	23
24	5.73	9 S	4.46	6.83	18	7.56	7.50 B	11	7.13	24
25	5.14	7	3.11	6.88	14	7.12	6.50 B	11	6.46	25
26	5.04	6	2.61	5.88	12	6.20	6.00 B	10	5.18	26
27	5.60	10 S	4.84	5.88	10 S	5.15	5.80 B	10	4.84	27
28	5.71	12	5.92	5.06	9	4.70	6.00 B	14	9.88	28
29	5.41	10	4.67	6.12	10	5.28	30.0 B	148	384	29
30	4.93	8	3.41	6.07	11	5.77	41.8	128	464	30
31	4.85	8	2.41				20.9	33	59.6	31
TOTAL	148.88		139.88	213.48		862.85	288.11		1 270.20	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

NOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	INSTANT. CONCENT. (mg/L)	SINGLE VERTICAL SAMPLING (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
FEB 15	14:00	0.1	85.1	338	MID																
FEB 16	16:45	0.1	70.0	477	MID												221				DH59
FEB 17	09:30	0.1	82.0	351	MID																DH59
FEB 18	09:30	0.1	86.0	898	MID																DH59
FEB 19	09:50	0.5	50.0	438	MID																DH59
FEB 20	18:00	0.5	52.0	367	MID																DH59
FEB 21	17:00	0.1	40.0	282	MID																DH59
FEB 22	16:45	0.5	30.0	148	MID												309				DH59
FEB 23	16:45	1.0	25.0	145	MID																DH59
FEB 24	16:40	0.5	27.0	130	MID																DH59
FEB 27	10:40	0.5	13.0	62	MID																DH59
MAR 26	12:45		58.4	308	MID																DH59
MAR 27	16:45		49.1	206	MID																DH59
APR 06	14:35	2.0	56.5	347	MID																DH59
APR 08	11:40	2.5	33.2	125	MID												300				DH59
APR 09	16:45	2.5	22.4	85	MID												337				DH59
APR 10	17:20	2.0	20.0	80	MID																DH59
APR 11	17:45	2.5	17.5	91	MID																DH59
APR 12	11:00	7.0	17.9	89	MID												328				DH59
APR 13	17:00	6.0	17.7	82	MID																DH59
APR 14	11:40	7.0	18.7	87	MID												335				DH59
APR 15	09:30	7.0	19.4	86	MID																DH59
APR 16	16:40	6.0	29.0	132	MID																DH59
APR 17	17:00	6.0	42.1	271	MID																DH59
APR 18	16:50	7.0	33.4	123	MID												338				DH59
APR 19	16:40	8.0	24.8	86	MID																DH59
APR 20	10:00	8.0	21.2	80	MID																DH59
APR 24	17:10	8.0	15.3	56	MID												336				DH59
APR 25	17:10	10.0	16.4	62	MID																DH59
APR 27	17:30	12.0	13.6	56	MID																DH59
MAY 03	17:30		10.6	38	MID												313				DH59
MAY 04	16:30		12.4	49	MID																DH59
MAY 06	16:00		12.3	30	MID																DH59
MAY 07	17:00		11.0	21	MID																DH59
MAY 10	18:35		15.1	30	MID																DH59
MAY 12	10:30		12.8	24	MID												320				DH59
MAY 13	13:20		12.7	32	MID												372				DH59
MAY 16	16:40		10.7	27	MID																DH59
MAY 22	17:10		8.76	30	MID																DH59
MAY 23	17:05		11.3	30	MID												287				DH59
MAY 25	18:10		10.8	31	MID												293				DH59
MAY 28	16:50		10.1	32	MID																DH59
MAY 31	09:35	12.0	17.0	115	MID																DH59
JUN 05	18:30		8.53	51	MID																DH59
JUN 07	17:00		7.07	45	MID												345				DH59
JUN 10	16:00		5.52	54	MID																DH59
JUN 14	08:30		5.12	38	MID																DH59
JUN 20	17:00	20.0	5.11	29	MID																DH59
JUN 22	18:00	22.0	4.80	25	MID												344				DH59
JUN 24	13:30	21.0	4.54	27	MID																DH59
JUN 27	17:30	18.0	4.76	17	MID												358				DH59
JUL 01	16:00	22.0	4.42	23	MID																DH59
JUL 07	13:00	14.0	4.88	25	MID																DH59
JUL 09	16:00	21.0	3.93	10	MID												387				DH59
JUL 12	17:00	20.0	4.52	15	MID																DH59
JUL 17	12:30	21.0	3.37	19	MID																DH59
JUL 19	17:30	19.0	3.10	76	MID																DH59
JUL 21	18:00		3.84	37	MID																DH59
JUL 26	16:00		2.44	38	MID												339				DH59
JUL 30	15:00		2.30	30	MID																DH59
AUG 02	18:00		2.54	46	MID																DH59
AUG 13	08:15		2.49	40	MID																DH59
AUG 21	16:30		3.27	32	MID												348				DH59
AUG 28	12:20		3.01	50	MID																DH59
AUG 28	09:10		2.69	67	MID																DH59
SEP 01	10:30		5.36	51	MID																DH59
SEP 02	15:25		4.85	30	MID																DH59
SEP 03	15:15		10.2	107	MID																DH59
SEP 06	18:00		5.35	20	MID												354				DH59
SEP 09	15:10		4.04	14	MID																DH59
SEP 11	18:15		5.58	22	MID												369				DH59
SEP 13	18:10		8.64	27	MID																DH59
SEP 16	18:30		4.87	16	MID												313				DH59
OCT 07	13:00		5.00	9	MID																DH59
OCT 10	17:50		4.45	5	MID																DH59
OCT 15	17:45		4.11	5	MID																DH59
OCT 20	16:00		6.25	9	MID																DH59
OCT 22	17:00		7.48	39	MID																DH59
OCT 24	10:00	7.0	5.76	8	MID												371				DH59
OCT 27	16:30		5.71	11	MID																DH59
NOV 05	17:00		9.52	42	MID												314				DH59
NOV 07	17:30		7.14	20	MID												300				DH59
NOV 11	13:55		9.11	44	MID																DH59
NOV 14	09:30	3.0	9.35	25	MID																DH59
NOV 21	17:10		5.95	18	MID																DH59
NOV 27	17:00		5.88	9	MID																DH59
DEC 01	14:30		5.78	10	MID												337				DH59
DEC 12	10:15	0.5	5.89	15	MID												351				DH59

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

ONTARIO

NOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1980	SEP-SEP	M-MS	32 SEP 10	32 SEP 10	---	---	---	---	---
1983	JAN-DEC	M-C	563 APR 04	2 OCT 18 *	1 810 MAR 20	27 100	74.3	74.3	---
1984	FEB-DEC	M-C	696 FEB 18 *	5 OCT 10	3 620 FEB 17 *	49 400 *	135	105	28.9

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION MS - MISCELLANEOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

D.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 31 53 N LONG 80 18 18 W
DRAINAGE AREA: 2.51 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 33.80 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	0.003	21	0.01	0.003	8	0	0.018	2 S	0	1
2	0.003	21	0.01	0.003	7	0	0.018	3	0	2
3	0.003	21	0.01	0.006	10	0.01	0.017	3	0	3
4	0.003	20 S	0.01	0.008	14	0.01	0.013	3	0	4
5	0.004	18	0.01	0.010	17	0.01	0.015	3	0	5
6	0.004	18	0.01	0.011	20	0.02	0.015	4	0.01	6
7	0.004	14 S	0	0.008	18	0.01	0.012	3	0	7
8	0.003	13	0	0.006	15	0.01	0.009	3	0	8
9	0.003	12	0	0.006	14	0.01	0.009	3	0	9
10	0.004	12	0	0.007	13	0.01	0.009	3	0	10
11	0.004	12	0	0.021	22	0.04	0.008	2	0	11
12	0.004	12	0	0.073	28	0.18	0.006	3	0	12
13	0.004	12	0	0.520	48	2.16	0.006	2	0	13
14	0.003	12	0	1.25	76 S	8.21	0.007	9 S	0.01	14
15	0.003	12	0	0.276	37	0.88	0.008	7	0	15
16	0.003	11	0	0.167	27	0.39	0.292	53	1.34	16
17	0.003	11	0	0.158	27	0.37	0.120	28	0.30	17
18	0.004	10	0	0.143	17 S	0.21	0.050	11	0.05	18
19	0.004	10 S	0	0.174	16	0.24	0.040	8	0.03	19
20	0.003	10	0	0.105	8 S	0.07	0.048	13	0.05	20
21	0.003	10	0	0.054	4	0.02	0.521	50	2.70	21
22	0.003	10	0	0.047	5	0.02	0.152	35	0.46	22
23	0.003	10	0	0.056	6	0.03	0.084	24	0.13	23
24	0.003	9	0	0.043	5	0.02	0.061	39 S	0.27	24
25	0.003	9	0	0.029	5	0.02	0.160	48	0.64	25
26	0.003	9	0	0.021	5	0.01	0.136	38	0.45	26
27	0.003	9	0	0.021	5	0.01	0.108	30	0.28	27
28	0.003	9	0	0.016	5	0.01	0.080	18 S	0.12	28
29	0.003	9	0	0.016	4	0.01	0.055	14	0.07	29
30	0.003	8	0				0.053	17 S	0.08	30
31	0.003	8	0				0.048	17	0.07	31
TOTAL	0.102		0.05	3.260		12.99	2.182		7.06	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.042	18	0.08	0.005	10	0.01	0.009	4	0	1
2	0.037	18	0.06	0.006	9	0	0.007	4	0	2
3	0.028	11 S	0.03	0.005	8	0	0.018	14 S	0.02	3
4	0.026	8	0.02	0.013	26	0.03	0.007	5	0	4
5	0.133	31	0.36	0.007	21	0.01	0.006	5	0	5
6	0.080	20	0.14	0.006	24 S	0.01	0.006	5	0	6
7	0.045	14	0.05	0.005	21	0.01	0.006	7	0	7
8	0.027	12	0.03	0.050	31	0.13	0.006	4	0	8
9	0.021	11	0.02	0.009	7 S	0.01	0.004	3	0	9
10	0.016	11	0.02	0.007	4	0	0.004	3	0	10
11	0.015	12	0.02	0.008	6	0	0.004	2	0	11
12	0.014	12	0.01	0.008	6	0	0.005	2	0	12
13	0.015	18	0.03	0.020	17	0.03	0.005	2	0	13
14	0.012	20 S	0.02	0.011	21	0.02	0.004	4	0	14
15	0.037	16 S	0.05	0.007	14	0.01	0.005	2	0	15
16	0.017	9	0.01	0.006	10	0.01	0.005	2	0	16
17	0.028	9 S	0.02	0.006	7	0	0.152	35	0.46	17
18	0.018	6	0.01	0.008	8	0.01	0.435	47	1.73	18
19	0.015	6	0.01	0.007	5	0	0.014	10	0.01	19
20	0.014	5	0.01	0.006	4	0	0.011	8	0.01	20
21	0.011	5	0	0.006	4	0	0.009	7	0.01	21
22	0.011	5	0	0.007	5	0	0.008	6	0	22
23	0.020	10	0.02	0.111	42 S	0.40	0.006	5	0	23
24	0.014	8	0.01	0.008	12	0.01	0.006	5 S	0	24
25	0.012	8	0.01	0.007	7	0	0.005	4	0	25
26	0.009	8	0.01	0.138	31 S	0.36	0.005	3	0	26
27	0.008	8	0.01	0.010	7	0.01	0.011	9	0.01	27
28	0.007	8 S	0	0.046	18	0.07	0.006	6	0	28
29	0.007	8	0	0.088	30	0.23	0.005	6	0	29
30	0.007	10	0.01	0.015	5	0.01	0.004	5	0	30
31				0.012	8	0.01				31
TOTAL	0.750		1.04	0.850		1.41	0.770		3.35	TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.004	4	0	0.004	2	0	0.006	11	0	1
2	0.004	3	0	0.189	24	0.41	0.053	48	0.22	2
3	0.004	3	0	0.020	14	0.02	0.015	27	0.03	3
4	0.004	2	0	0.003	10	0	0.005	13	0.01	4
5	0.008	4	0	0.003	8	0	0.004	10	0	5
6	0.111	28	0.28	0.003	5	0	0.004	7	0	6
7	0.006	24	0.01	0.003	4	0	0.004	5	0	7
8	0.004	18 S	0.01	0.074	15 S	0.10	0.003	4	0	8
9	0.003	13	0	0.124	17 S	0.18	0.014	15	0.02	9
10	0.005	8	0	0.004	8	0	0.197	31	0.53	10
11	0.023	24	0.05	0.003	7	0	0.144	28	0.35	11
12	0.005	10 S	0	0.003	5	0	0.008	8	0.01	12
13	0.004 E	8	0	0.003	4	0	0.283	40	0.98	13
14	0.003 E	6	0	0.004	3	0	0.019	9	0.01	14
15	0.003 E	4	0	0.003	3	0	0.007	6	0	15
16	0.003 E	2	0	0.003	2	0	0.005	5	0	16
17	0.005 E	4	0	0.003	1	0	0.004	4	0	17
18	0.010 E	4	0.01	0.003	2	0	0.004	3	0	18
19	0.023 E	25	0.05	0.003	2	0	0.004	2	0	19
20	0.007 E	9	0.01	0.003	2	0	0.004	3	0	20
21	0.005 E	4	0	0.004	2	0	0.005	3	0	21
22	0.004 E	3	0	0.006	5	0	0.004	3	0	22
23	0.003 E	3 S	0	0.004	2	0	0.004	2	0	23
24	0.003 E	3	0	0.004	2	0	0.005	2	0	24
25	0.003 E	1 S	0	0.003	2	0	0.023	12	0.02	25
26	0.003	1	0	0.003	1	0	0.018	10	0.02	26
27	0.004	3	0	0.003	2	0	0.005	6	0	27
28	0.003	2	0	0.005	4	0	0.004	5	0	28
29	0.003	1	0	0.138	43 S	0.51	0.004	5	0	29
30	0.003	2	0	0.009	18	0.01	0.003	5	0	30
31	0.003	2	0	0.005	13	0.01				31
TOTAL	0.274		0.42	0.854		1.24	0.880		2.20	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.004	5	0	0.005	11	0	0.004	3	0	1
2	0.004	4	0	0.007	14	0.01	0.004	3	0	2
3	0.004 E	4	0	0.003	10	0	0.035	15	0.03	3
4	0.004 E	3	0	0.125	31	0.33	0.007	4	0	4
5	0.003 E	3	0	0.040	25	0.09	0.005	3	0	5
6	0.004 E	2	0	0.006	13	0.01	0.005	3	0	6
7	0.003 E	2	0	0.005	10	0	0.005	3	0	7
8	0.003 E	2	0	0.005	8	0	0.004	2	0	8
9	0.030 E	6	0.02	0.037	20	0.06	0.004	3	0	9
10	0.080 E	33	0.23	0.140	35	0.44	0.005	5	0	10
11	0.007 E	8	0.01	0.328	45	1.38	0.009	3	0	11
12	0.006 E	6	0	0.022	15	0.03	0.034	12	0.04	12
13	0.005 E	3	0	0.011	3 S	0	0.037	11	0.04	13
14	0.004 E	3	0	0.008	2	0	0.010	4	0	14
15	0.003 E	3	0	0.022	6	0.01	0.013	3	0	15
16	0.003 E	2	0	0.014	6	0.01	0.025	6	0.01	16
17	0.003 E	2	0	0.008	5	0	0.013	4	0	17
18	0.004 E	3	0	0.006	5	0	0.011	4	0	18
19	0.040 E	30	0.10	0.004	3	0	0.008	4	0	19
20	0.006	13	0.01	0.006	2	0	0.008	3	0	20
21	0.012	14	0.01	0.004	2	0	0.034	19	0.06	21
22	0.005	12	0.01	0.005	3	0	0.201	31	0.38	22
23	0.003	11	0	0.005	3	0	0.018	5	0.01	23
24	0.004	10	0	0.004	3	0	0.014	3	0	24
25	0.003	8 S	0	0.004	2	0	0.008	3	0	25
26	0.008	17	0.01	0.005	2	0	0.008	2	0	26
27	0.004	15	0.01	0.005	2	0	0.007	2	0	27
28	0.003	12	0	0.005	5	0	0.189	36	0.46	28
29	0.003	10	0	0.007	5	0	0.385	39	1.23	29
30	0.004	8	0	0.008	3	0	0.053	19	0.09	30
31	0.003	8	0				0.025 E	11	0.02	31
TOTAL	0.272		0.41	0.855		3.37	1.185		3.39	TOTAL

E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 04	10:40	4.0	0.004		20	MID																DIP
JAN 07	10:42	2.0	0.004		13	MID																DIP
JAN 19	08:45	0.1	0.003		10	MID																DIP
FEB 14	08:10	2.0	1.12		88	MID																DIP
FEB 18	16:30	3.0	0.184		15	MID																DIP
FEB 20	17:05	3.0	0.071		5	MID																DIP
MAR 01	08:15	3.0	0.017		3	MID																DIP
MAR 14	14:49	3.0	0.008		19	MID																DIP
MAR 24	15:45	5.0	0.088		75	MID																DIP
MAR 28	10:02	6.0	0.126		23	MID																DIP
MAR 30	15:45	7.0	0.067		22	MID												435				DIP
APR 03	15:10	8.0	0.033		4	MID																DIP
APR 14	14:09	8.0	0.013		20	MID																DIP
APR 15	10:23	7.0	0.075		17	MID												773				DIP
APR 17	18:26	7.0	0.023		6	MID																DIP
APR 28	10:20	9.5	0.008		6	MID																DIP
MAY 06	10:20	8.0	0.007		24	MID												787				DIP
MAY 09	17:43	8.0	0.009		4	MID																DIP
MAY 23	08:20		0.058		51	MID																DIP
MAY 28	13:42	15.0	0.023		9	MID																DIP
JUN 03	09:25	13.0	0.024		11	MID																DIP
JUN 24	10:10	15.0	0.008		6	MID												549				DIP
JUL 06	20:05	14.0	0.003		17	MID												603				DIP
JUL 12	14:45		0.005		9	MID																DIP
JUL 23	11:10	15.0	0.003	Y	3	MID												705				DIP
JUL 25	11:50	16.0	0.003	Y	0	MID																DIP
AUG 08	18:30	17.0	0.005		33	MID																DIP
AUG 09	10:25	17.0	0.017		9	MID																DIP
AUG 29	08:57	17.0	0.167		64	MID												450				DIP
OCT 25	08:30	4.0	0.003		9	MID												236				DIP
NOV 13	16:30	2.0	0.010		2	MID																DIP

NOTE - SINGLE VERTICAL LOCATED AT MIDSTREAM

DISCHARGE SYMBOL(S): Y - DAILY MEAN, ESTIMATED

O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1969	APR-DEC	M-S	195 MAY 30		20 JUL 27		5.34 APR 16		25.3	---	---	---
1970	JAN-DEC	M-C	685 SEP 15		5 APR 06		1.05 APR 03		22.4	0.06	0.06	---
1971	JAN-DEC	M-C	251 DEC 10		13 MAR 19		3.52 APR 02		34.1	0.07	0.07	10.1
1972	JAN-DEC	M-C	381 APR 11		7 APR 15		11.5 APR 13		57.1	0.16	0.10	31.9
1973	JAN-DEC	M-C	263 MAR 14		4 NOV 24		10.2 MAR 14		53.6	0.15	0.11	23.8
1974	JAN-DEC	M-C	1 150 NOV 20		0 SEP 12	*	52.1 MAY 17		131	0.36	0.16	33.7
1975	JAN-DEC	# M-S	15 700 APR 19	*	38 JAN 15		3 640 APR 18	*	3 980	---	---	---
1976	FEB-DEC	# M-S	2 750 APR 15		19 NOV 25		180 MAR 15		1 040	---	---	---
1977	JAN-DEC	M-C	3 810 JUL 08		5 OCT 06		77.0 JUL 06		287	0.74	0.28	40.9
1978	JAN-DEC	M-C	1 240 AUG 29		7 FEB 28		22.2 MAY 13		129	0.35	0.27	32.7
1979	JAN-DEC	M-C	405 DEC 24		7 APR 09		63.7 DEC 25		242	0.67	0.32	28.1
1980	JAN-DEC	M-C	1 030 MAY 31		1 OCT 05		11.8 DEC 02		71.8	0.20	0.31	26.9
1981	JAN-DEC	M-C	853 AUG 28		2 OCT 20		31.0 SEP 04		87.2	0.19	0.30	26.1
1982	JAN-DEC	M-C	200 AUG 25		1 APR 30		10.8 MAR 31		68.9	0.19	0.29	23.8
1983	JAN-DEC	M-C	261 MAY 02		1 JAN 17		11.4 MAY 02		46.9	0.14	0.27	23.7
1984	JAN-NOV	M-C	79 MAR 24		0 JUL 25		4.21 FEB 14		32.8	0.09	0.26	23.3

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

OGOKI RIVER ABOVE WHITECLAY LAKE - STATION NO. 04GB004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	JUN-SEP #	M-MS	2 JUN 11 *	2 JUN 11 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

OTTAWA RIVER AT BRITANNIA - STATION NO. 02KF005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-JUN MEAN LOAD (TONNES)	SUMMARY : APR-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-JUN STANDARD ERROR OF MEAN %
1971	SEP-OCT	A-S	11 OCT 23	2 SEP 13	488 OCT 23	9 810	---	---	---
1972	APR-SEP	A-S	45 JUL 05	1 MAY 15 *	10 700 MAY 07	425 000	---	---	---
1973	MAY-NOV	A-S	15 JUL 09	1 JUN 21	2 410 JUL 08	134 000	---	---	---
1974	JAN-DEC	A-S	38 APR 26	2 AUG 27	11 400 APR 26	782 000 *	5 490	5 490	---
1975	APR-JUN	A-S	61 APR 22 *	7 MAY 15	12 900 APR 24	306 000	3 360	4 430	24.0
1976	APR-JUL	A-S	46 APR 05	6 MAY 11	15 400 APR 05 *	365 000	3 530	4 130	18.5

A - AUTOMATIC SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

OTTAWA RIVER AT CUMBERLAND - STATION NO. 02LB010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1977	JUL-SEP	A-S	12 JUL 05	6 JUL 15 *	---	---	---	---	---
1978	JAN-DEC #	A-S	84 NOV 17	3 MAR 05	---	---	---	---	---
1979	JAN-JUN	A-S	188 JUN 14 *	8 FEB 23	---	---	---	---	---

A - AUTOMATIC SAMPLING

S - SEASONAL OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

PIKEIMUTA RIVER AT EYES LAKE - STATION NO. 04FA003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	JUN-SEP #	M-MS	10 AUG 13 *	4 SEP 26 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

PIPESTONE RIVER AT KARL LAKE - STATION NO. 04DA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : HISTORICAL STANDARD ERROR OF MEAN %
1983	JUN-SEP #	M-MS	55 AUG 13 *	4 JUN 01 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

REESOR CREEK ABOVE GREEN RIVER - STATION NO. 02HC038

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	SUMMARY : APR-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-DEC HISTORICAL STANDARD ERROR OF MEAN %
1974	MAR-DEC	M-S	808 MAR 05 *	2 JUL 28 *	277 MAR 05 *	948	1.07	1.07	---
1975	JAN-DEC	M-C	344 APR 19	2 OCT 05	273 FEB 24	878 *	0.88	1.03	3.9
1975	JAN-JUN	M-S	221 MAR 21	3 APR 08	141 MAR 21	476	---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

REESOR CREEK NEAR ALTONA - STATION NO. 02HC040

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-JUN MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL STANDARD ERROR OF MEAN %
1974	MAR-DEC	M-S	803 MAR 05 *	5 NOV 11	175 MAR 05 *	563 *	---	---	---
1975	JAN-DEC	M-C	456 MAR 19	4 JUN 25	78.0 MAR 19	388	2.04	2.04	---
1975	JAN-JUN	M-S	340 MAR 21	3 APR 30 *	150 MAR 21	359	1.88	2.01	1.5

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ROSEBERRY RIVER ABOVE ROSEBERRY LAKES - STATION NO. 04CA003

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
MAY 25	11:00	5.0	10.8	8	MID												104				D49
JUL 18	12:35	11.0	4.66	10	MID																D49
OCT 01	13:05	7.0	3.21	5	MID												203				D49

NOTE : SINGLE VERTICAL IS UNDETERMINED

ROSEBERRY RIVER ABOVE ROSEBERRY LAKES - STATION NO. 04CA003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	MAY-SEP #	M-MS	11	MAY 25	10	AUG 08	---	---	---	---	---
1979	MAY-SEP #	M-MS	14	JUL 17	9	SEP 28	---	---	---	---	---
1980	JUL-OCT #	M-MS	15	JUL 09 *	8	OCT 04	---	---	---	---	---
1983	MAY-SEP #	M-MS	8	SEP 23	4	MAY 31 *	---	---	---	---	---
1984	MAY-OCT	M-MS	10	JUL 18	5	OCT 01	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

\# - PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

SACHIGO RIVER BELOW OUTLET OF SACHIGO LAKE - STATION NO. 04CD002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	JUN-SEP #	M-MS	20	SEP 24 *	3	JUN 01 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

\# - PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

SAUGEEN RIVER NEAR PORT ELGIN - STATION NO. 02FC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1975	FEB-DEC	M-S	551	APR 20 *	5	DEC 13	30 000	APR 20 *	191 000		---	---	---
1976	JAN-DEC	M-C	431	MAR 21	3	OCT 18	27 800	MAR 21	181 000		484	484	---
1977	JAN-DEC	M-C	332	MAR 15	11	APR 27	28 600	MAR 15	191 000	*	536	510	3.0
1978	JAN-DEC #	M-S	503	APR 01	7	DEC 27	19 300	APR 07	147 000		---	---	---
1979	JAN-DEC #	M-S	334	APR 18	3	NOV 21	12 900	MAR 25	152 000		---	---	---
1980	FEB-NOV #	M-MS	344	OCT 07	4	AUG 27	---		---		---	---	---
1981	FEB-DEC #	M-MS	218	FEB 24	3	SEP 21 *	---		---		---	---	---
1982	MAR-DEC #	M-MS	97	MAR 25	12	OCT 27	---		---		---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION MS - MISCELLANEOUS OPERATION

\# - PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

SEVERN RIVER AT LIMESTONE RAPIDS - STATION NO. 04CC001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
JUN 01	10:00	8.0	888	15	MID												106				048
SEP 22	08:15	5.0	602	8	MID												186				048

NOTE : SINGLE VERTICAL IS UNDETERMINED

ONTARIO

SEVERN RIVER AT LIMESTONE RAPIDS - STATION NO. 04CC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	MAY-MAY	M-MS	77 MAY 05 *	45 MAY 04	---	---	---	---	---
1978	JUN-SEP #	M-MS	14 JUN 03	9 SEP 19	---	---	---	---	---
1979	JUL-SEP #	M-MS	18 JUL 25	13 SEP 28	---	---	---	---	---
1980	MAY-JUL #	M-MS	22 MAY 22	12 JUL 03	---	---	---	---	---
1984	JUN-SEP	M-MS	15 JUN 01	6 SEP 22 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

SEVERN RIVER AT OUTLET OF MUSKRAT DAM LAKE - STATION NO. 04CA002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	JUN-JUN	M-MS	2 JUN 01 *	2 JUN 01 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

SEVERN RIVER BELOW OUTLET OF DEER LAKE - STATION NO. 04CA004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	MAY-SEP #	M-MS	3 SEP 23 *	1 MAY 31 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

SOUTH MAITLAND RIVER AT SUMMERHILL - STATION NO. 02FE005

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 41 04 N LONG 81 32 38 W
DRAINAGE AREA: 276 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 7 292.82 TONNES FOR THE PERIOD MAR 31 TO DEC 31

REMARKS:

	MAR			APR			MAY			
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	3.70 B			16.1	14	19.5	1.72	47 S	6.98	1
2	3.80 B			14.5	17	21.3	1.38	34	4.05	2
3	3.75 B			12.3	18 S	19.1	1.25	27	2.92	3
4	3.85 B			10.5	18	14.5	1.22	25 S	2.64	4
5	3.50 B			12.4	20	21.4	1.18	26	2.55	5
6	3.10 B			13.9	22	26.4	1.07	25	2.31	6
7	2.80 B			10.5	17	15.4	0.980	26 S	2.32	7
8	2.60 B			7.80	17	11.2	0.872	31	2.80	8
9	2.40 B			6.08	18	8.40	1.03	34 S	3.03	9
10	2.30 B			4.95	15	6.42	1.02	33	2.91	10
11	2.25 B			4.13	15	5.36	0.945	32	2.61	11
12	2.22 B			3.50	14	4.23	0.929	36	2.89	12
13	2.20 B			3.11	14	3.76	0.882	89	5.01	13
14	2.28 B			2.86	12	2.98	1.32	81	9.24	14
15	2.34 B			2.84	12	2.94	1.24	81	8.68	15
16	13.2 B			3.31	17	4.85	1.05	77	6.99	16
17	33.9 B			4.22	23	8.38	0.827	71 S	5.75	17
18	35.3			4.88	28	11.8	1.03	72	6.41	18
19	29.2			5.12	26 S	12.4	1.11	71	6.81	19
20	22.0			5.15	41 S	18.2	1.07	83	6.82	20
21	36.5			4.07	32 S	11.3	0.882	81	6.24	21
22	39.7			3.27	21	5.93	0.812	39	3.07	22
23	30.0			3.05	18 S	4.74	1.26	42	4.64	23
24	23.1			2.94	27 S	6.88	1.59	37 S	5.08	24
25	14.9			2.63	33	7.50	1.39	27	3.24	25
26	15.1			2.18	38	7.18	3.92	33 S	11.2	26
27	18.5			1.95	41 S	6.91	5.48	43	20.4	27
28	22.5			1.80	42	6.53	3.37	22	6.41	28
29	23.8			1.69	42	5.77	7.81	27 S	18.2	29
30	19.7			1.68	54	7.84	11.9	51	52.4	30
31	17.6	13	19.5				7.21	36	22.4	31
TOTAL	437.79		19.5	173.11		309.08	68.238		243.80	TOTAL

	JUN			JUL			AUG			
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	4.78	31 S	12.8	0.841	18	1.31	0.100 E	20	0.17	1
2	3.34	27	7.78	0.715	16	0.99	0.120 E	19	0.20	2
3	3.49	30	9.05	0.621	16	0.80	0.130 E	21	0.24	3
4	3.88	27	9.28	0.581	14	0.70	0.140 E	21	0.25	4
5	2.70	9 S	2.10	0.537	13	0.59	0.130 E	17 S	0.19	5
6	2.45	10	2.12	0.572	14	0.69	0.135 E	11	0.12	6
7	2.08	16	2.88	1.28	26	2.88	0.120 E	6	0.06	7
8	1.73	27 S	4.04	1.01	33 S	2.01	0.115 E	3 S	0.03	8
9	1.48	31	3.88	0.671	20	1.16	0.135 E	7	0.08	9
10	1.31	30	3.40	0.555	19	0.91	0.180 E	10	0.14	10
11	1.13	28	2.73	0.555	17	0.82	0.145 E	10	0.13	11
12	0.980	24	2.03	0.524	15	0.68	0.125 E	6	0.09	12
13	0.870	19	1.43	0.446	13	0.50	0.120 E	4	0.08	13
14	0.864	20	1.67	0.401	12	0.42	0.105 E	4	0.05	14
15	0.852	15	1.10	0.368	11	0.35	0.085 E	6 S	0.05	15
16	0.718	12	0.74	0.356	10	0.31	0.085 E	5	0.04	16
17	1.48	37	4.75	0.348	10	0.30	0.075 E	4	0.03	17
18	28.8	130 S	321	0.345	10	0.30	0.085 E	3	0.02	18
19	27.3	88	183	0.350	9	0.27	0.080 E	2 S	0.02	19
20	20.4	39	61.1	0.322	9	0.26	0.075 E	2	0.01	20
21	10.8	30	18.7	0.288	9	0.23	0.100 E	4	0.03	21
22	4.05	17	5.88	0.270	9 S	0.21	0.080 E	6	0.04	22
23	3.82	17	3.70	0.242	6 S	0.10	0.075 E	9	0.05	23
24	2.38	18 S	3.74	0.234	9	0.17	0.075 E	14	0.09	24
25	1.74	18	2.71	0.202	15	0.26	0.074 E	18	0.12	25
26	1.36	26 S	3.10	0.180 A	23	0.36	0.072 E	18	0.11	26
27	1.21	28	3.03	0.158 A	27 S	0.37	0.071 E	20 S	0.12	27
28	1.33	28	3.33	0.145 E	27	0.34	0.070 E	33	0.19	28
29	1.27	27	2.88	0.135 E	26	0.30	0.300 E	88	1.76	29
30	0.877	31	1.79	0.120 E	25	0.25	0.808 A	135 S	8.48	30
31				0.110 E	22	0.21	0.853	86	8.07	31
TOTAL	138.211		848.88	13.674		19.05	4.853		32.06	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

SOUTH MAITLAND RIVER AT SUMMERHILL - STATION NO. 02FE009

SUSPENDED SEDIMENT FOR 1984

DAY	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DAY
1	0.495	39	1.67	0.309	16 S	0.48	0.578	19	0.95	1
2	0.635	50	2.74	0.293	17	0.43	0.755	20	1.30	2
3	1.34	87	10.1	0.250	16	0.35	0.798	16	1.24	3
4	1.20 A	47	4.87	0.218	15	0.28	1.67	22	3.17	4
5	0.780 E	34	2.39	0.211	14	0.26	8.57	51	37.8	5
6	0.484 A	30 S	1.26	0.191	13	0.21	6.80	35	20.0	6
7	0.470 E	30	1.22	0.191	12 S	0.20	3.40	24	7.05	7
8	0.485 E	32	1.28	0.207	13	0.23	2.18	20	3.77	8
9	0.445 E	33	1.27	0.245	14	0.30	1.64	18	2.85	9
10	0.435 E	33	1.24	0.288	16	0.40	5.83	41	21.0	10
11	0.420 E	33	1.20	0.281	18	0.45	42.1	83 E	302	11
12	0.402 A	33 S	1.15	0.314	20 S	0.54	45.1	50	185	12
13	0.431	25	0.83	0.293	18	0.41	35.1	31	94.0	13
14	0.832	27 S	1.47	0.268	14 S	0.32	23.4	25	50.5	14
15	1.22	40	4.22	0.261	14	0.32	16.2	28	35.4	15
16	0.890	31	2.38	0.264	14	0.32	18.5	30	50.5	16
17	0.897	28 S	1.34	0.281	14	0.34	15.5	25	35.5	17
18	0.483	21	0.84	0.275	15	0.35	10.5	25	22.7	18
19	0.389	18	0.60	0.292	15	0.36	9.44	25	21.2	19
20	0.350	16	0.48	0.295	16	0.41	7.12	23	14.1	20
21	0.313	16	0.43	0.495	27	1.15	4.92	22	9.35	21
22	0.281	16	0.40	0.868	43 S	3.22	3.76	20 S	6.50	22
23	0.274	16	0.38	0.838	30	2.17	3.32	19	5.45	23
24	0.263	16	0.38	0.725	22	1.36	2.97	16	4.62	24
25	0.383	18	0.44	0.588	17	0.88	2.84	18	4.11	25
26	0.404	27	0.94	0.625	18	0.97	2.38	17	3.47	26
27	0.430	23	0.86	0.767	23	1.52	2.20	17	3.23	27
28	0.385	20	0.67	0.980	28	2.33	2.73	28 S	6.13	28
29	0.361	20	0.62	0.884	24	1.83	4.82	44	18.3	29
30	0.334	19	0.55	0.744	20	1.29	4.83	35	14.9	30
31				0.636	19	1.04				31
TOTAL	15.875		48.17	13.377		24.76	291.232		887.10	TOTAL

DAY	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	4.46	19	7.32							1
2	4.43	11 S	4.21							2
3	5.45	30	14.1							3
4	8.66	38	32.4							4
5	5.10	33	10.1							5
6	3.86	17	5.65							6
7	2.87	13	3.22							7
8	3.01	12	3.13							8
9	2.43	11	2.31							9
10	2.28	11	2.17							10
11	2.80	17	3.82							11
12	5.28	36	16.4							12
13	38.0	88 S	212							13
14	34.6	69	147							14
15	26.3	28	61.2							15
16	16.7	17	24.5							16
17	13.4	8	9.26							17
18	10.0	4 S	3.48							18
19	7.24	4	2.50							19
20	5.72	4	1.98							20
21	4.70	4	1.62							21
22	8.63	26	31.4							22
23	13.3	39	44.8							23
24	8.41	28	20.3							24
25	5.84	25	12.2							25
26	4.96	23	9.85							26
27	5.43	23	10.8							27
28	14.0	169 S	193							28
29	86.3	403	2 310							29
30	70.8	198 S	1 210							30
31	53.4	131	593							31
TOTAL	483.08		4 982.80							TOTAL

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SOUTH MAITLAND RIVER AT SUMMERHILL - STATION NO. 02FE009

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
MAR 30	11:10	5.0	19.1		11	MID																DHS9
APR 03	12:45	7.0	12.5		26	MID																DHS9
APR 18	15:00	7.0	5.34		33	MID												334				DHS9
APR 20	10:00		5.30		43	MID																DHS9
APR 21	11:00		3.93		33	MID																DHS9
APR 23	17:15		3.05		16	MID																DHS9
APR 24	18:15		2.85		27	MID																DHS9
APR 27	18:20		1.89		41	MID																DHS9
MAY 01	17:15	5.0	1.63		47	MID																DHS9
MAY 04	15:45	10.0	1.22		25	MID																DHS9
MAY 07	18:50	15.0	0.956		29	MID												244				DHS9
MAY 09	11:30	9.0	1.05		34	MID																DHS9
MAY 17	18:30	10.0	0.880		70	MID																DHS9
MAY 24	17:30	17.0	1.55		33	MID																DHS9
MAY 26	17:15	12.0	5.40		37	MID																DHS9
MAY 29	18:35	7.0	10.4		27	MID												316				DHS9
JUN 01	18:30	17.0	4.30		30	MID												363				DHS9
JUN 05	10:10	17.0	2.70		8	MID																DHS9
JUN 08	18:15	23.0	1.59		30	MID												326				DHS9
JUN 18	18:30	25.0	35.6		95	MID																DHS9
JUN 24	19:30		2.08		18	MID												459				DHS9
JUN 26	18:30	25.0	1.24		29	MID																DHS9
JUL 08	20:15	20.0	0.857		21	MID												371				DHS9
JUL 22	20:00	25.0	0.249		9	MID																DHS9
JUL 23	09:50	23.5	0.245		4	MID												329				DHS9
JUL 27	07:30	18.0	0.189	Y	27	MID																DHS9
AUG 06	11:30		0.130	Y	17	MID																DHS9
AUG 08	15:00	21.0	0.115	Y	2	MID												316				DHS9
AUG 15	09:00	20.0	0.095	Y	5	MID																DHS9
AUG 19	19:00	20.0	0.080	Y	2	MID																DHS9
AUG 27	13:00	20.0	0.071	Y	19	MID																DHS9
AUG 30	12:20	20.5	0.808		141	MID																DHS9
SEP 06	16:30	18.0	0.488		28	MID												311				DHS9
SEP 12	09:55	15.0	0.402		33	MID																DHS9
SEP 14	17:00	16.0	0.580		26	MID																DHS9
SEP 17	17:30		0.548		25	MID																DHS9
OCT 01	18:00		0.309		18	MID																DHS9
OCT 07	14:00		0.180		12	MID																DHS9
OCT 12	10:05		0.318		21	MID																DHS9
OCT 14	13:00		0.270		14	MID												300				DHS9
OCT 22	17:00		0.890		41	MID																DHS9
NOV 22	11:50	3.0	3.70		20	MID												342				DHS9
NOV 28	10:40	3.0	2.61		25	MID																DHS9
DEC 02	13:00	2.0	4.38		10	MID																DHS9
DEC 13	16:00	1.0	36.7		62	MID																DHS9
DEC 18	11:30	3.5	10.1		4	MID												376				DHS9
DEC 28	14:00	10.0	8.29		158	MID																DHS9
DEC 30	13:00		73.3		178	MID												78				DHS9

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

DISCHARGE SYMBOL(S): V - DAILY MEAN, MANUAL GAUGE Y - DAILY MEAN; ESTIMATED

SOUTH MAITLAND RIVER AT SUMMERHILL - STATION NO. 02FE009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	MAR-DEC	M-S	178	DEC 30 *	2	AUG 08 *	2 310	DEC 29 *	7 310 *	26.5	26.5	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

SOUTH NATION RIVER AT CASSELMAN - STATION NO. 02LB013

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)
1976	MAR-DEC #	M-S	177	MAR 31	6	JUL 01	9 240	APR 01	45 600
1977	JAN-MAY	M-S	307	MAR 28	8	JAN 12	11 600	MAR 14	83 900
1978	APR-MAY	M-S	180	APR 12	11	MAY 30	11 600	APR 14	58 400
1979	MAR-MAY	M-S	141	MAR 24	11	MAY 15	8 530	MAR 26	37 200
1980	MAR-MAY	M-S	188	MAR 25	17	APR 23	4 250	MAR 22	51 100
1981	FEB-APR	M-S	385	FEB 24	5	MAR 13 *	38 200	FEB 21 *	80 800 *
1982	MAR-MAY	M-S	385	APR 01 *	12	MAY 13	28 200	APR 01	82 900

SUMMARY : MAR-APR			
	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
	---	---	---
	1 040	1 040	---
	---	---	---
	803	822	26.6
	820	821	15.4
	50.4	824	33.6
	---	---	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

SOUTH NATION RIVER AT LEMIEUX - STATION NO. 02LB015

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)
1972	APR-DEC	M-S	3 480	AUG 08 *	11	SEP 13	---	---
1973	MAR-DEC	M-S	705	MAR 18	8	NOV 08 *	---	---
1974	MAR-NOV	M-S	487	APR 05	19	NOV 09	---	---
1975	APR-NOV #	M-S	375	APR 17	26	MAY 17	---	---
1976	MAR-MAY	M-S	1 380	MAR 26	30	APR 28	---	---
1977	MAR-APR	M-S	389	MAR 30	32	MAR 18	---	---
1978	APR-MAY	M-S	423	APR 13	33	MAY 31	---	---
1979	MAR-MAY	M-S	433	MAR 24	31	APR 21	---	---
1980	MAR-MAY	M-S	498	APR 10	43	MAY 10	---	---
1981	FEB-APR	M-S	188	FEB 24	18	MAR 15	---	---
1982	MAR-JUN	M-S	740	APR 01	34	APR 30	---	---

SUMMARY :			
	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
	---	---	---
	---	---	---
	---	---	---
	---	---	---
	---	---	---
	---	---	---
	---	---	---
	---	---	---
	---	---	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

SOUTH NATION RIVER BELOW CASSELMAN - STATION NO. 02LB014

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)
1972	APR-NOV	M-S	184	JUN 24	1	MAY 19 *	---	---
1973	MAR-DEC	M-S	217	MAR 31	4	JUL 24	---	---
1974	MAR-DEC #	M-S	356	APR 03 *	3	JUN 01	---	---
1975	APR-APR #	M-MS	15	APR 27	10	APR 10	---	---

SUMMARY :			
	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
	---	---	---
	---	---	---
	---	---	---
	---	---	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 45 30 23 N LONG 74 57 20 W
DRAINAGE AREA: 3 810 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 102 132.18 TONNES FOR THE PERIOD JAN 03 TO JUN 30

REMARKS:SEASONAL STATION 1984

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	DAY
1	23.2 B			73.3 B	25	158	278 B	83	1 920	1
2	19.8 B			85.1 B	23	128	373 B	89	2 220	2
3	16.6 B	15 S	21.5	67.6 B	21	105	400 B	81	2 800	3
4	16.3 B			48.4 B	18	78.5	449 B	119	4 820	4
5	16.0 B			42.6 B	17	62.9	556	283	12 700	5
6	15.8 B									
7	15.6 B			38.0 B	15	52.5	885	402 S	23 100	6
8	15.4 B			33.6 B	15	43.4	703	115 S	6 990	7
9	15.2 B			29.6 B	19	48.6	635	86 S	5 270	8
10	15.0 B			27.5 B	20	47.5	525	98 S	4 450	9
				25.6 B	20	44.2	385	85 S	3 180	10
11	14.8 B									
12	14.6 B			23.7 B	18	36.9	255	86 S	2 120	11
13	14.4 B			22.2 B	16	30.7	182	85	1 490	12
14	14.2 B			21.7 B	13	24.4	135	94 S	1 100	13
15	14.0 B			21.5	13	24.1	104	94	845	14
				20.9 B	10 S	18.1	92.8	86 S	770	15
16	13.8 B									
17	13.6 B			19.2 B	12	19.9	118	107	1 100	16
18	13.4 B			17.6 B	9	13.7	357	101 S	3 120	17
19	13.3 B			16.9 B	10	14.8	345	97	2 880	18
20	13.2 B			16.2 B	13	18.2	262	97 S	2 200	19
				15.6 B	14	18.9	178	93	1 410	20
21	13.0 B									
22	12.8 B			14.5 B	15	18.8	118	85	852	21
23	12.6 B			21.8	18	33.9	78.3	75 S	514	22
24	12.4 B			73.5	36	239	68.7	87	328	23
25	12.2 B			130	46	517	65.2	71 S	339	24
				150	32	415	230	81 S	1 610	25
26	12.1 B									
27	12.0 B			155	31	415	248	72	1 540	26
28	11.8 B			148	36	460	175	72 S	1 090	27
29	11.7 B			141	42	512	115	67 S	665	28
30	11.6 B			149	49	631	74.6	80 S	387	29
31	11.4 B			180	57	788	65.4	84	268	30
				187	82	1 000				31
TOTAL	441.8		21.5	1 988.7		8 009.8	8 205.0		91 459	TOTAL

DAY	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	48.8	48 S	189	41.4	31	111				
2	39.5	46	157	31.7	30	82.2				1
3	32.3	45	126	26.4	30	85.8				2
4	27.7	47 S	112	21.8	30	56.5				3
5	35.4	34 B	104	19.1	30	49.5				4
										5
6	40.8	28	98.7	16.0	30	41.5				
7	35.3	28 S	86.4	15.1	29	37.8				6
8	34.6	28 S	83.5	15.2	29	38.1				7
9	81.1	40	315	13.4	30	34.7				8
10	110	31 S	295	9.95	30	25.9				9
										10
11	77.4	26	174	8.46	30	21.9				
12	77.1	27 S	180	7.35	31	19.7				11
13	88.0	34	263	6.83	31	18.3				12
14	74.5	30 S	193	6.83	31 S	18.8				13
15	51.3	28	138	6.48	30	14.2				14
										15
16	36.0	28	91.8	6.40	28	13.1				
17	31.5	28 S	76.2	4.84	28	11.1				16
18	28.7	29	66.8	4.51	24	9.35				17
19	24.2	30 S	62.7	5.65	33	16.2				18
20	27.8	30	72.1	5.33	30	13.8				19
										20
21	27.9	30 S	72.3	4.31	28	10.8				
22	24.9	28	60.2	3.77	28	9.12				21
23	23.7	34	69.1	3.18	28	7.69				22
24	35.8	25 S	77.3	3.24	27	7.56				23
25	45.8	37	146	3.73	27	8.68				24
										25
26	40.6	35 S	122	3.88	27	9.05				
27	33.2	33	84.7	3.64	27	8.98				26
28	36.2	30 S	87.8	3.67	27	8.56				27
29	23.7	27	55.3	3.41	27	7.95				28
30	35.3	34	104	2.94	27	6.68				29
31	45.0	34 S	132							30
										31
TOTAL	1 378.8		3 882.2	304.83		781.18				TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
JAN 03	11:00	0.1	17.5 B	15	10RB X																
MAR 15	11:25	0.1	21.5 B	10	10RB X																
APR 06	14:00	1.0	697	458	20.4												388				DH48
APR 07	10:00	5.0	716	84	20.4																DH48
APR 07	14:00	5.0	682	61	20.4												221				D48
APR 08	09:00	5.0	721	58	20.4												294				D48
APR 08	15:00	7.0	707	50	20.4																D48
APR 09	13:05	3.0	80.2	88	20.4																D48
APR 09	13:10	3.0	147	92	25.0 M																D48
APR 09	13:20	3.0	144	95	45.0 M												250				D48
APR 09	13:30	3.0	98.3	82	80.0 M												232				D48
APR 09	13:40	3.0	58.7	84	85.0 M												232				D48
APR 08	14:00	3.0	528	98	20.4												222				D48
APR 09	15:00	7.0	528	59	20.4												231				D48
APR 09	19:00	7.0	528	58	20.4												230				D48
APR 10	15:00	7.0	316	58	20.4												269				D48
APR 10	19:15	7.0	267	59	20.4																D48
APR 11	15:00	8.0	168	58	20.4																D48
APR 13	16:00	8.0	139	57	20.4												298				D48
APR 15	16:00	9.0	91.4	58	20.4																D48
APR 17	17:30	9.0	122	59	20.4																D48
APR 19	16:15	9.0	107	59	20.4																D48
APR 22	16:00	9.0	145	44	20.4												295				D48
APR 24	16:30	10.0	94.4	46	20.4																D48
APR 25	16:00	10.0	133	45	20.4												320				D48
APR 27	12:15	8.0	178	73	20.4																D48
APR 28	14:00	10.0	91.7	40	20.4												319				D48
APR 29	18:00	11.0	67.4	45	20.4												314				D48
MAY 01	18:00	11.0	48.4	48	20.4																D48
MAY 04	18:30	11.0	84.9	49	20.4																D48
MAY 05	18:00	11.0	84.9	28	20.4												342				D48
MAY 07	16:00	12.0	52.6	29	20.4																D48
MAY 08	19:00	12.0	80.0	29	20.4																D48
MAY 10	16:30	13.0	50.0	29	20.4																D48
MAY 12	17:00	14.0	75.1	28	20.4												359				D48
MAY 14	18:15	15.0	42.5	29	20.4																D48
MAY 17	16:30	15.0	67.0	28	20.4																D48
MAY 19	14:00	15.0	38.2	30	20.4												369				D48
MAY 21	16:15	17.0	15.4	30	20.4																D48
MAY 24	16:30	16.0	70.7	27	20.4																D48
MAY 26	17:30	19.0	43.0	34	20.4																D48
MAY 28	16:00	19.0	72.6	29	20.4																D48
MAY 31	16:00	20.0	18.3	33	20.4																D48
JUN 14	09:55	16.5	5.15	31	10RB X												356				D48
JUL 20	10:00	22.0	2.80	26	10RB X																D48
AUG 27	11:15	22.0	7.61	55	10RB X																DH48
SEP 26	09:15	13.0	1.22	44	30RB X												320				DH48
NOV 09	11:30	5.0	3.47	27	10RB X																DH48
DEC 17	11:05	1.0	15.5	20	10RB X																DH48
																	394				DH48

NOTE : SINGLE VERTICAL LOCATED AT 20.4 METRES

DISCHARGE SYMBOL(S): B - ICE CONDITIONS
VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL M - A SEDIMENT MEASUREMENT VERTICAL

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : MAR-AUG MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1972	JAN-DEC	B-C	998	APR 13	14	MAY 17	38 000	APR 15	515 000		2 030	2 030	---
1973	JAN-DEC	B-C	687	MAY 19	18	JAN 02	23 800	MAY 19	309 000		1 500	1 770	15.0
1974	JAN-DEC	B-C	612	APR 06	15	JAN 11	35 800	APR 06	293 000		1 510	1 680	10.4
1975	JAN-AUG	B-S	295	APR 15	4	MAR 25 *	9 350	APR 20	83 500	*	437	1 370	24.4
1976	JAN-AUG	M-S	5 880	MAY 21 *	11	MAR 08	157 000	MAY 20 *	536 000	*	2 910	1 680	24.0
1977	JAN-DEC #	M-S	147	MAR 17	16	DEC 19	9 840	MAR 17	95 200		---	---	---
1978	JAN-NOV #	M-S	436	APR 13	16	FEB 15	31 400	APR 14	210 000		---	---	---
1979	JAN-DEC #	M-S	426	MAR 24	19	JAN 04	20 700	MAR 25	192 000		794	1 530	23.5
1980	MAR-AUG	M-S	839	APR 10	22	MAR 13	25 800	APR 10	153 000		---	---	---
1981	FEB-DEC #	M-S	842	JUN 23	12	MAR 21	67 700	FEB 22	248 000		394	1 370	25.2
1982	JAN-DEC	M-C	854	APR 01	12	JAN 12	31 800	APR 01	226 000		1 010	1 320	22.8
1983	JAN-DEC	M-C	87	APR 10	16	JAN 21	4 750	MAY 03	106 000		430	1 220	23.3
1984	JAN-DEC #	M-S	458	APR 06	10	MAR 19	23 100	APR 06	102 000		---	---	---

B - BOTH AUTOMATIC AND MANUAL SAMPLING M - MANUAL SAMPLING
C - CONTINUOUS OPERATION S - SEASONAL OPERATION
- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

STOUFFVILLE CREEK BELOW STOUFFVILLE - STATION NO. 02HC035

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	
1974	MAR-DEC	M-S	458	MAR 06	9	MAY 03	78.0	MAR 06	375	*
1975	JAN-DEC	M-C	384	MAR 19	3	OCT 04 *	29.9	MAR 19	232	
1976	JAN-JUN	M-S	1 280	MAR 20 *	3	MAY 01	85.8	MAR 21 *	273	

SUMMARY : APR-DEC	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
	0.73	0.73	---
	0.27	0.50	46.0
	---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

STURGEON CREEK NEAR LEAMINGTON - STATION NO. 02GH001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	
1971	MAR-DEC #	M-S	887	DEC 30	3	NOV 01	42.8	DEC 30	62.9	
1972	JAN-DEC	M-C	5 850	APR 16 *	0	OCT 03 *	395	APR 16	1 850	
1973	JAN-DEC	M-C	3 880	MAR 11	4	NOV 14	884	MAR 11 *	2 850	*
1974	JAN-DEC	M-C	2 140	MAR 04	2	JUN 24	236	FEB 22	1 420	
1975	JAN-DEC	M-C	1 540	JAN 28	4	MAY 17	218	FEB 24	1 350	
1976	JAN-DEC	M-C	1 320	JUL 10	4	NOV 08	287	FEB 17	1 920	

SUMMARY : JAN-DEC	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
	---	---	---
	4.50	4.50	---
	7.82	5.15	28.9
	3.90	5.41	22.5
	3.70	4.88	19.3
	5.26	5.04	14.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

\# - PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

THAMES RIVER AT INGERSOLL - STATION NO. 02GD018

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	
1963	OCT-DEC	M-S	22	NOV 20	5	OCT 08	2.47	NOV 23	54.2	
1964	JAN-DEC	M-C	75	MAR 06	2	NOV 04	218	APR 06	4 000	
1965	JAN-DEC	M-C	285	APR 12	3	JAN 13	2 010	FEB 10 *	14 800	*
1966	JAN-DEC	M-C	200	FEB 11	6	APR 05	1 230	DEC 08	7 080	
1967	JAN-DEC	M-C	133	DEC 01	3	MAY 31	891	DEC 22	11 200	
1968	JAN-DEC	M-C	195	FEB 02	2	OCT 30	1 940	FEB 02	9 340	
1969	JAN-DEC	M-C	859	JUL 25 *	6	MAY 05	1 150	JAN 30	8 790	
1970	JAN-DEC	M-C	180	APR 02	3	APR 28	283	APR 02	3 980	
1971	JAN-DEC	M-C	178	MAR 15	4	MAY 05	391	MAR 15	4 850	
1972	JAN-DEC	M-C	390	APR 13	2	JUL 28	650	APR 13	7 050	
1973	JAN-DEC	M-C	348	MAR 17	1	SEP 15 *	1 380	MAR 17	13 400	

SUMMARY : JAN-DEC	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
	---	---	---
	10.9	10.9	---
	40.7	25.8	57.8
	19.4	23.7	37.4
	30.7	25.4	25.8
	25.5	25.4	19.0
	24.1	25.2	16.4
	10.9	23.2	17.4
	13.3	21.9	16.9
	19.3	21.6	15.2
	36.7	23.2	14.2

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

THAMES RIVER AT INNERKIP - STATION NO. 02GD021

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 43 12 55 N LONG 80 41 24 W
DRAINAGE AREA: 148 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 20 194.15 TONNES FOR THE PERIOD FEB 12 TO DEC 31

REMARKS:

DAY	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.655 B			1.30			0.187	8	0.13	1
2	0.860 B			1.00			0.184	14	0.22	2
3	0.875 B			1.16			0.558	52	2.51	3
4	0.880 B			1.03			0.355	24	0.74	4
5	1.05 B			0.710			0.232	19	0.38	5
6	1.30 B			0.894			0.174	18	0.23	6
7	1.16 B			1.04			0.172	14	0.21	7
8	1.06 B			0.815			0.151	11	0.14	8
9	1.02 B			0.490			0.133	12	0.14	9
10	0.980 B			0.410			0.333	51	1.47	10
11	0.935 B			0.343			1.01	75 S	6.54	11
12	0.910 B	29	2.28	0.290			1.22	25 S	2.64	12
13	3.00 B	400	104	0.273			2.23	60 S	11.6	13
14	40.0 B	2 260	7 810	0.319			5.03	185	86.0	14
15	32.0 B	1 940	5 360	0.288			2.13	54	9.94	15
16	25.0 B	1 580 S	3 410	0.251	41	0.89	1.22	38	4.01	16
17	15.0 B	800	1 040	1.42	123	15.1	0.772	29	1.93	17
18	13.2 B	201	229	6.73	749 S	436	0.631	23	1.05	18
19	14.5 B			3.24	384	102	0.432	18	0.67	19
20	11.0 B			1.56	151	20.4	0.353	18	0.49	20
21	9.00 B			1.02	75	6.81	0.295	15	0.38	21
22	7.30 B			0.726			0.240	16	0.33	22
23	7.60 B			0.552			0.223	16	0.31	23
24	8.40 B			0.513			0.225	16	0.31	24
25	4.50 B			0.426			0.245	20	0.42	25
26	3.20 B			0.340			0.356	30	0.92	26
27	2.50 B			0.473			0.350	25	0.76	27
28	2.20 B			0.511			0.318	17	0.47	28
29	2.00 B			0.326			0.303	13	0.34	29
30				0.273			0.285	16	0.40	30
31										31
TOTAL	211.895		17 955.28	28.326		581.00	21.232		135.89	TOTAL

DAY	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.274	16	0.38	0.366	25	0.78	0.747	20	1.29	1
2	0.267	15	0.35	0.571	39	1.82	0.751	17	1.15	2
3	0.268	14	0.31	0.536	31	1.44	1.08	42	3.92	3
4	0.265	14	0.32	0.559	30	1.71	1.50 B	53	6.87	4
5	0.226	15	0.29	1.91	54	8.91	1.00 B	22	1.90	5
6	0.274	15	0.36	1.41	19 S	2.19	0.700 B	14	0.85	6
7	0.243	15	0.34	1.01	11 S	0.96	0.620 B	12	0.64	7
8	0.268	15	0.44	0.783	9	0.61	0.800 B	10	0.62	8
9	0.316	15	0.44	0.722	8	0.37	0.610 B	10	0.53	9
10	0.382	14	0.44	1.37	29	3.43	0.694 B	10 S	0.60	10
11	0.348	13	0.39	4.53	144	56.4	0.892	12	1.03	11
12	0.268	22	0.61	4.78	68	35.5	1.63	43	5.68	12
13	0.403	30	1.04	2.32	34	6.52	5.21	181	72.5	13
14	0.231	17	0.34	1.55	23	3.06	3.03	59	15.4	14
15	0.265	18	0.41	1.44	34	4.23	2.04	29	5.11	15
16	0.430	28	1.04	2.38	77	15.8	1.65	19	2.69	16
17	0.350	26	0.79	1.62	46	7.23	2.13	15	2.76	17
18	0.332	22	0.63	1.45	34	4.26	1.80	14	2.18	18
19	0.368	19	0.60	1.24	32	3.43	1.20 B	15	1.56	19
20	0.410	17	0.60	0.900 B	29	2.26	1.10 B	13	1.24	20
21	0.468	18	0.72	0.840 B	28	2.03	1.18	36	3.67	21
22	0.522	20	0.90	0.780 B	23	1.51	7.35	212	135	22
23	0.473	21	0.86	0.744	16	1.16	4.34	85	20.8	23
24	0.427	21	0.77	0.718	16	0.99	2.10 B	16	2.90	24
25	0.381	21	0.69	0.684	15	0.88	1.20 B	13	1.35	25
26	0.430	20	0.74	0.622	13	0.84	1.12 B	9	0.87	26
27	0.418	20	0.72	0.585	11	0.56	1.08 B	6	0.75	27
28	0.418	20	0.72	0.681	14	0.82	3.20 B	63	17.1	28
29	0.380	19	0.59	0.885	28	2.17	18.2	378	638	29
30	0.373	17	0.55	0.814	24	1.69	12.7	195	315	30
31	0.373	18	0.58				6.17	75	40.0	31
TOTAL	10.788		17.86	36.831		173.63	94.824		1 289.80	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

THAMES RIVER AT INNERKIP - STATION NO. 02GD021

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
FEB	16	07:20	0.1	25.0	1710	12.0															
JUN	18	07:25	20.0	7.15	853	12.0															
SEP	11	12:30	20.0	0.956	15	12.0											346				DH59
SEP	12	13:30	18.0	1.10	10	12.0											622				DH59
SEP	13	12:50	17.0	0.686	6	12.0															DH48
NOV	06	08:30	7.0	1.42	18	12.0															DH48
NOV	07	14:15	7.0	0.980	13	12.0											609				DH48
DEC	10	15:00	0.1	0.820	11	12.0															DH48
																	590				DH48

NOTE : SINGLE VERTICAL LOCATED AT 12.0 METRES

THAMES RIVER AT INNERKIP - STATION NO. 02GD021

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1984	FEB-DEC #	B-S	1 710	FEB 16 *	6	SEP 13 *	7 810	FEB 14 *	20 200 *	---	---	---

B - BOTH AUTOMATIC AND MANUAL SAMPLING

S - SEASONAL OPERATION

\# - PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

THAMES RIVER AT THAMESVILLE - STATION NO. 02GE003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1973	FEB-DEC	M-S	835	MAR 12	10	FEB 20 *	27 000	MAR 12 *	280 000	---	---	---
1974	JAN-DEC	M-C	1 120	APR 04 *	25	MAR 27	18 200	MAR 07	400 000	1 100	1 100	---
1975	JAN-DEC	M-C	604	FEB 24	14	FEB 14	25 200	FEB 25	463 000 *	1 240	1 170	6.0
1976	JAN-DEC	M-C	935	JUL 11	14	JAN 16	18 900	MAR 08	387 000	1 050	1 140	4.4

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

WEST DUFFINS CREEK ABOVE GREEN RIVER - STATION NO. 02HC038

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	SUMMARY : APR-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-DEC STANDARD ERROR OF MEAN %
1974	MAR-DEC	M-S	430	MAR 01	1	SEP 30 *	281	MAR 08 *	1 000			
1975	JAN-DEC	M-C	494	MAR 19 *	2	OCT 16	190	MAR 19	1 380 *	3.38	2.38	---
1976	JAN-JUN	M-S	288	MAR 21	3	MAY 03	213	MAR 21	894	1.70	1.98	14.1
										---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

WEST DUFFINS CREEK AT GREEN RIVER - STATION NO. 02HC028

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAR-DEC MEAN LOAD (TONNES)	SUMMARY : MAR-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAR-DEC STANDARD ERROR OF MEAN %
1974	MAR-DEC	M-S	488 MAR 05 *	1 JUL 17 *	718 MAR 05 *	2 880 *	9.43	9.43	---
1975	JAN-DEC	M-C	187 MAR 20	1 OCT 02	287 FEB 24	1 810	3.74	5.59	43.2
1976	JAN-JUN	M-S	310 MAR 21	5 APR 19	549 MAR 21	2 200	---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

WEST DUFFINS CREEK NEAR ALTONA - STATION NO. 02HC041

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-JUN MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-JUN STANDARD ERROR OF MEAN %
1974	JUN-DEC	M-S	174 JUL 03	1 OCT 25 *	31.0 JUL 03	108	---	---	---
1975	JAN-DEC	M-C	234 MAR 19 *	2 AUG 21	45.2 FEB 24 *	378 *	1.85	1.85	---
1976	JAN-JUN	M-S	193 MAR 20	4 APR 05	39.0 MAR 21	243	1.34	1.60	15.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

WEST DUFFINS CREEK NEAR PICKERING - STATION NO. 02HC106

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	OCT-DEC	M-S	27 NOV 05	1 NOV 01 *	8.15 NOV 21	56.6	---	---	---
1975	JUN-DEC	M-S	1 600 DEC 15 *	4 NOV 05	388 DEC 05 *	1 310 *	---	---	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

WEST HUMBER RIVER NEAR THISTLETOWN - STATION NO. 02HC008

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	APR-SEP	M-S	880 APR 08 *	0 AUG 13 *	1 910 APR 08 *	5 310 *	---	---	---
1986	JAN-MAY #	M-MS	655 MAR 01	12 FEB 25	---	---	---	---	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

WINDIGO RIVER ABOVE MUSKRAT DAM LAKE - STATION NO. 04CB001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	MAY-SEP #	M-MS	20	SEP 23 *	5	MAY 31 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

WINISK RIVER BELOW ASHEWEIG RIVER TRIBUTARY - STATION NO 04DC001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP (°C)	INSTANT DISCHARGE (m³/s)	INSTANT CONCENT (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
MAY 31	15:00	5.0	506	7	MID												114				D49
SEP 02	15:45	6.0	346	5	MID												189				D49

NOTE : SINGLE VERTICAL IS UNDETERMINED

WINISK RIVER BELOW ASHEWEIG RIVER TRIBUTARY - STATION NO. 04DC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	JUN-JUN	M-MS	48	JUN 02 *	48	JUN 02	---	---	---	---	---
1978	SEP-SEP	M-MS	12	SEP 28	12	SEP 28	---	---	---	---	---
1980	MAY-JUL #	M-MS	28	JUL 07	15	MAY 05	---	---	---	---	---
1984	MAY-SEP	M-MS	7	MAY 31	5	SEP 02 *	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

WINSON CREEK BELOW ALTONA - STATION NO. 03HC048

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAR-JUN MEAN LOAD (TONNES)	SUMMARY : MAR-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAR-JUN STANDARD ERROR OF MEAN %
1974	MAR-DEC	M-S	806	MAR 05	3	MAR 28 *	80.8 MAR 05	347	1.88	1.88	---
1975	JAN-DEC	M-C	848	MAR 18 *	6	NOV 28	394 FEB 24 *	787 *	2.82	2.10	24.8
1978	JAN-JUN	M-S	456	MAR 30	14	FEB 28	95.2 MAR 31	348	2.44	2.21	14.5

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

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02EA010	NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE	43
02ED003	MOTTAWASAGA RIVER NEAR BAXTER	43
02FC001	SAUGEEN RIVER NEAR PORT ELGIN	44
02FD002	LUCKNOW RIVER AT LUCKNOW	53
02FE004	MAITLAND RIVER NEAR DONNYBROOK	39
02FE008	SOUTH MAITLAND RIVER AT SUMMERHILL	40
02FF002	AUSABLE RIVER NEAR SPRINGBANK	55
02GA003	GRAND RIVER AT GALT	3
02GA010	NITH RIVER NEAR CANNING	29
02GA023	CANAGAGIGUE CREEK NEAR ELMIRA	43
02GA032	O.A.C. FARM GAUGE NO. 5 AT GUELPH	15
02GA035	EAST CANAGAGIGUE CREEK NEAR FLORADALE	48
02GA036	CANAGAGIGUE CREEK NEAR FLORADALE	22
02GB001	GRAND RIVER AT BRANTFORD	16
02GC004	BIG OTTER CREEK NEAR VIENNA	38
02GC007	BIG CREEK NEAR WALSINGHAM	15
02GC022	NANTICOKE CREEK AT NANTICOKE	8
02GC026	BIG OTTER CREEK NEAR CALTON	42
02GD018	THAMES RIVER AT INGERSOLL	12
02GD021	THAMES RIVER AT INNERKIP	51
02GE003	THAMES RIVER AT THAMESVILLE	52
02GH001	STURGEON CREEK NEAR LEAMINGTON	53
02HB002	CREDIT RIVER AT ERINDALE	51
02HC003	HUMBER RIVER AT WESTON	20
02HC008	WEST HUMBER RIVER NEAR THISTLETOWN	38
02HC025	HUMBER RIVER AT ELDER MILLS	54
02HC026	WEST DUFFINS CREEK AT GREEN RIVER	35
02HC035	STOUFFVILLE CREEK BELOW STOUFFVILLE	54
02HC038	WEST DUFFINS CREEK ABOVE GREEN RIVER	51
02HC039	REESOR CREEK ABOVE GREEN RIVER	53
02HC040	REESOR CREEK NEAR ALTONA	52
02HC041	WEST DUFFINS CREEK NEAR ALTONA	52
02HC044	BROUGHAM CREEK AT BROUGHAM	54
02HC045	MICHELL CREEK BELOW CLAREMONT	15
02HC046	WIXON CREEK BELOW ALTONA	41
02HC108	WEST DUFFINS CREEK NEAR PICKERING	55
02HD013	HARMONY CREEK AT OSHAWA	54
02HD014	FAREWELL CREEK AT OSHAWA	31
02KF005	OTTAWA RIVER AT BRITANNIA	26
02LB005	SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS	51
02LB010	OTTAWA RIVER AT CUMBERLAND	59
02LB013	SOUTH NATION RIVER AT CASSELMAN	51
02LB014	SOUTH NATION RIVER BELOW CASSELMAN	58
02LB015	SOUTH NATION RIVER AT LEMIEUX	58
04CA002	SEVERN RIVER AT OUTLET OF MUSKRAT DAM LAKE	54
04CA003	ROSEBERRY RIVER ABOVE ROSEBERRY LAKES	52
04CA004	SEVERN RIVER BELOW OUTLET OF DEER LAKE	54
04CB001	WINDIGO RIVER ABOVE MUSKRAT DAM LAKE	56
04CC001	SEVERN RIVER AT LIMESTONE RAPIDS	53
04CD002	SACHIGO RIVER BELOW OUTLET OF SACHIGO LAKE	53
04CE002	FAWN RIVER BELOW BIG TROUT LAKE	53
04DA001	PIPESTONE RIVER AT KARL LAKE	29
04DB001	ASHEWEIG RIVER AT STRAIGHT LAKE	52
04DC001	WINISK RIVER BELOW ASHEWEIG RIVER TRIBUTARY	1
04EA001	EKWAN RIVER BELOW NORTH WASHAGAMI RIVER	55
04FA003	PINEIMUTA RIVER AT EYES LAKE	35
04FC001	ATTAWAPISKAT RIVER BELOW MUKETEI RIVER	51
04GA002	CAT RIVER BELOW WESLEYAN LAKE	3
04GB004	OGOKI RIVER ABOVE WHITECLAY LAKE	18
04GD001	ALBANY RIVER ABOVE NOTTIK ISLAND	51
04HA001	ALBANY RIVER NEAR HAT ISLAND	1
04JF001	LITTLE CURRENT RIVER AT PERCY LAKE	1
04JG001	KENOGAMI RIVER NEAR MAMMAMATTAWA	38
04KA001	KWATABOAHEGAN RIVER NEAR THE MOUTH	38
04KA002	HALFWAY CREEK AT MOOSONEE	38
04LG002	MOOSE RIVER AT MOOSE RIVER	30
04LG004	MOOSE RIVER ABOVE MOOSE RIVER	41
04ME003	ABITIBI RIVER AT SMOKAWANA	41
04MF001	NORTH FRENCH RIVER NEAR THE MOUTH	1

NAME	STA. NO.	PAGE
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ALBANY RIVER ABOVE HOTTIK ISLAND	04GD001	1
ALBANY RIVER NEAR HAT ISLAND	04HA001	1
ASHEWEIG RIVER AT STRAIGHT LAKE	04BB001	1
ATTAWAPISKAT RIVER BELOW MUKETEI RIVER	04FC001	2
AUSABLE RIVER NEAR SPRINGBANK	02FF002	3
BIG CREEK NEAR WALSINGHAM	02GC007	8
BIG OTTER CREEK NEAR CALTON	02GC028	12
BIG OTTER CREEK NEAR VIENNA	02GC004	15
BROUGHAM CREEK AT BROUGHAM	02HC044	15
CANAGAGIGUE CREEK NEAR ELMIRA	02GA023	15
CANAGAGIGUE CREEK NEAR FLORADALE	02GA036	16
CAT RIVER BELOW WESLEYAN LAKE	04GA002	19
CREDIT RIVER AT ERINDALE	02HB002	20
EAST CANAGAGIGUE CREEK NEAR FLORADALE	02GA035	22
EKWAN RIVER BELOW NORTH WASHAGAMI RIVER	04EA001	25
FAREWELL CREEK AT OSHAWA	02HD014	26
FAWN RIVER BELOW BIG TROUT LAKE	04CE002	29
GRAND RIVER AT BRANTFORD	02GB001	29
GRAND RIVER AT CALT	02GA003	29
HALFWAY CREEK AT MOOSONEE	04KA002	30
HARMONY CREEK AT OSHAWA	02HD013	31
HUMBER RIVER AT ELDER MILLS	02HC026	35
HUMBER RIVER AT WESTON	02HC003	38
KENOGAMI RIVER NEAR MANMAMATTAWA	04JG001	38
KWATABOAHEGAN RIVER NEAR THE MOUTH	04KA001	38
LITTLE CURRENT RIVER AT PERCY LAKE	04JF001	38
LUCKNOW RIVER AT LUCKNOW	02FD002	39
MAITLAND RIVER NEAR DONNYBROOK	02FE004	40
MICHELL CREEK BELOW CLAREMONT	02HC045	41
MOOSE RIVER ABOVE MOOSE RIVER	04LG004	41
MOOSE RIVER AT MOOSE RIVER	04LG002	41
NANTICOKE CREEK AT NANTICOKE	02GC022	42
NITH RIVER NEAR CANNING	02GA010	42
NORTH FRENCH RIVER NEAR THE MOUTH	04MF001	42
NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE	02EA010	43
NOTTAWASAGA RIVER NEAR BAXTER	02ED003	44
O.A.C. FARM GAUGE NO. 5 AT GUELPH	02GA032	48
OGOKI RIVER ABOVE WHITECLAY LAKE	04GB004	51
OTTAWA RIVER AT BRITANNIA	02KF005	51
OTTAWA RIVER AT CUMBERLAND	02LB010	51
PINCIMUTA RIVER AT EYES LAKE	04FA003	51
PIPESTONE RIVER AT KARL LAKE	04DA001	52
REESOR CREEK ABOVE GREEN RIVER	02HC039	52
REESOR CREEK NEAR ALTONA	02HC040	52
ROSEBERRY RIVER ABOVE ROSEBERRY LAKES	04CA003	52
SACHIGO RIVER BELOW OUTLET OF SACHIGO LAKE	04CD002	53
SAUGEEN RIVER NEAR PORT ELGIN	02FC001	53
SEVERN RIVER AT LIMESTONE RAPIDS	04CC001	53
SEVERN RIVER AT OUTLET OF MUSKRAT DAM LAKE	04CA002	54
SEVERN RIVER BELOW OUTLET OF DEER LAKE	04CA004	54
SOUTH MAITLAND RIVER AT SUMMERHILL	02FE009	55
SOUTH NATION RIVER AT CASSELMAN	02LB013	58
SOUTH NATION RIVER AT LEMIEUX	02LB015	58
SOUTH NATION RIVER BELOW CASSELMAN	02LB014	58
SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS	02LB005	59
STOUFFVILLE CREEK BELOW STOUFFVILLE	02HC035	61
STURGEON CREEK NEAR LEAMINGTON	02GH001	61
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